

HEADER HYDROLASE 10-NOV-16 5TVV
TITLE COMPUTATIONALLY DESIGNED FENTANYL BINDER - FEN49* APO

COMPND MOL_ID: 1;
COMPND 2 MOLECULE: ENDO-1,4-BETA-XYLANASE A;
COMPND 3 CHAIN: A, B, C;
COMPND 4 FRAGMENT: UNP RESIDUES 30-213;
COMPND 5 SYNONYM: XYLANASE A,1,4-BETA-D-XYLAN
XYLANOHYDROLASE A;
COMPND 6 EC: 3.2.1.8;
COMPND 7 ENGINEERED: YES;
COMPND 8 MUTATION: YES
SOURCE MOL_ID: 1;
SOURCE 2 ORGANISM_SCIENTIFIC: BACILLUS SUBTILIS (STRAIN 168);

SOURCE 3 ORGANISM_TAXID: 224308;
SOURCE 4 STRAIN: 168;
SOURCE 5 GENE: XYNA, BSU18840;
SOURCE 6 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE 7 EXPRESSION_SYSTEM_TAXID: 562
KEYWDS FENTANYL BINDER, COMPUTATIONAL DESIGN, HYDROLASE

EXPDTA X-RAY DIFFRACTION

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REVDAT 3 01-JAN-20 5TVV 1 REMARK

REVDAT 2 04-DEC-19 5TVV 1 REMARK

REVDAT 1 04-OCT-17 5TVV 0

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JRNL TITL COMPUTATIONAL DESIGN OF ENVIRONMENTAL SENSORS
FOR THE POTENT

JRNL TITL 2 OPIOID FENTANYL.

JRNL REF ELIFE V. 6 2017

JRNL REFN ESSN 2050-084X

JRNL PMID 28925919

JRNL DOI 10.7554/ELIFE.28909

REMARK 2

REMARK 2 RESOLUTION. 1.79 ANGSTROMS.

REMARK 3

REMARK 3 REFINEMENT.

REMARK 3 PROGRAM : PHENIX DEV_2313

REMARK 3 AUTHORS : PAUL ADAMS,PAVEL AFONINE,VINCENT

CHEN,IAN

REMARK 3 : DAVIS,KRESHNA GOPAL,RALF GROSSE-KUNSTLEVE,

REMARK 3 : LI-WEI HUNG,ROBERT IMMORMINO,TOM IOERGER,

REMARK 3 : AIRLIE MCCOY,ERIK MCKEE,NIGEL MORIARTY,

REMARK 3 : REETAL PAI,RANDY READ,JANE RICHARDSON,
 REMARK 3 : DAVID RICHARDSON,TOD ROMO,JIM SACCHETTINI,

 REMARK 3 : NICHOLAS SAUTER,JACOB SMITH,LAURENT
 REMARK 3 : STORONI,TOM TERWILLIGER,PETER ZWART
 REMARK 3
 REMARK 3 REFINEMENT TARGET : NULL
 REMARK 3
 REMARK 3 DATA USED IN REFINEMENT.
 REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS) : 1.79
 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS) : 43.86
 REMARK 3 MIN(FOBS/SIGMA_FOBS) : 1.350
 REMARK 3 COMPLETENESS FOR RANGE (%) : 98.3
 REMARK 3 NUMBER OF REFLECTIONS : 52283
 REMARK 3
 REMARK 3 FIT TO DATA USED IN REFINEMENT.
 REMARK 3 R VALUE (WORKING + TEST SET) : 0.205
 REMARK 3 R VALUE (WORKING SET) : 0.204
 REMARK 3 FREE R VALUE : 0.225
 REMARK 3 FREE R VALUE TEST SET SIZE (%) : 5.090
 REMARK 3 FREE R VALUE TEST SET COUNT : 2660
 REMARK 3
 REMARK 3 FIT TO DATA USED IN REFINEMENT (IN BINS).
 REMARK 3 BIN RESOLUTION RANGE COMPL. NWORK NFREE RWORK
 RFREE

REMARK 3	1	43.8741 - 4.7684	1.00	2876	143	0.2343	0.2647
REMARK 3	2	4.7684 - 3.7855	1.00	2722	160	0.1716	0.1795
REMARK 3	3	3.7855 - 3.3072	1.00	2679	161	0.1704	0.1635
REMARK 3	4	3.3072 - 3.0049	1.00	2685	133	0.1743	0.2166
REMARK 3	5	3.0049 - 2.7896	1.00	2633	157	0.1841	0.2116
REMARK 3	6	2.7896 - 2.6251	1.00	2634	163	0.1973	0.2312
REMARK 3	7	2.6251 - 2.4937	1.00	2667	118	0.2018	0.2619
REMARK 3	8	2.4937 - 2.3851	1.00	2649	129	0.2064	0.2513
REMARK 3	9	2.3851 - 2.2933	0.99	2619	130	0.1972	0.2495
REMARK 3	10	2.2933 - 2.2142	0.99	2648	142	0.2006	0.2711
REMARK 3	11	2.2142 - 2.1449	0.99	2600	135	0.2133	0.2280
REMARK 3	12	2.1449 - 2.0836	0.99	2590	145	0.2171	0.2291
REMARK 3	13	2.0836 - 2.0288	0.99	2613	118	0.2281	0.2593
REMARK 3	14	2.0288 - 1.9793	0.99	2604	147	0.2309	0.2355
REMARK 3	15	1.9793 - 1.9343	0.98	2595	134	0.2195	0.2342
REMARK 3	16	1.9343 - 1.8931	0.98	2540	143	0.2452	0.2803
REMARK 3	17	1.8931 - 1.8552	0.96	2514	142	0.2626	0.2678
REMARK 3	18	1.8552 - 1.8202	0.95	2484	133	0.2905	0.2585
REMARK 3	19	1.8202 - 1.7877	0.87	2271	127	0.3248	0.2983

 REMARK 3
 REMARK 3 BULK SOLVENT MODELLING.
 REMARK 3 METHOD USED : NULL
 REMARK 3 SOLVENT RADIUS : 1.11
 REMARK 3 SHRINKAGE RADIUS : 0.90
 REMARK 3 K_SOL : NULL
 REMARK 3 B_SOL : NULL
 REMARK 3
 REMARK 3 ERROR ESTIMATES.

REMARK 3 COORDINATE ERROR (MAXIMUM-LIKELIHOOD BASED) : 0.200

REMARK 3 PHASE ERROR (DEGREES, MAXIMUM-LIKELIHOOD BASED) :
21.790

REMARK 3

REMARK 3 B VALUES.

REMARK 3 FROM WILSON PLOT (A**2) : 18.53

REMARK 3 MEAN B VALUE (OVERALL, A**2) : 28.51

REMARK 3 OVERALL ANISOTROPIC B VALUE.

REMARK 3 B11 (A**2) : NULL

REMARK 3 B22 (A**2) : NULL

REMARK 3 B33 (A**2) : NULL

REMARK 3 B12 (A**2) : NULL

REMARK 3 B13 (A**2) : NULL

REMARK 3 B23 (A**2) : NULL

REMARK 3

REMARK 3 TWINNING INFORMATION.

REMARK 3 FRACTION: NULL

REMARK 3 OPERATOR: NULL

REMARK 3

REMARK 3 DEVIATIONS FROM IDEAL VALUES.

	RMSD	COUNT
BOND	: 0.005	4507
ANGLE	: 0.714	6218
CHIRALITY	: 0.052	654
PLANARITY	: 0.004	794
DIHEDRAL	: 8.702	2440

REMARK 3

REMARK 3 TLS DETAILS

REMARK 3 NUMBER OF TLS GROUPS : 20

REMARK 3 TLS GROUP : 1

REMARK 3 SELECTION: CHAIN 'A' AND (RESID 1 THROUGH 34)

REMARK 3 ORIGIN FOR THE GROUP (A): -7.4266 -14.2785 -19.2916

REMARK 3 T TENSOR

REMARK 3 T11: 0.1465 T22: 0.2537

REMARK 3 T33: 0.1747 T12: 0.1046

REMARK 3 T13: -0.0107 T23: -0.0033

REMARK 3 L TENSOR

REMARK 3 L11: 1.9175 L22: 3.6960

REMARK 3 L33: 3.6803 L12: -1.2216

REMARK 3 L13: 0.8093 L23: -0.0721

REMARK 3 S TENSOR

REMARK 3 S11: -0.2795 S12: -0.4562 S13: 0.0191

REMARK 3 S21: 0.2063 S22: 0.1995 S23: 0.2222

REMARK 3 S31: -0.0183 S32: -0.4444 S33: 0.0242

REMARK 3 TLS GROUP : 2

REMARK 3 SELECTION: CHAIN 'A' AND (RESID 35 THROUGH 85)

REMARK 3 ORIGIN FOR THE GROUP (A): 3.7368 -18.5591 -18.7112

REMARK 3 T TENSOR

REMARK 3 T11: 0.1209 T22: 0.1778

REMARK 3 T33: 0.1018 T12: 0.0550

REMARK 3 T13: -0.0150 T23: -0.0167

REMARK 3 L TENSOR

REMARK 3 L11: 2.0361 L22: 1.7099
 REMARK 3 L33: 1.8231 L12: -1.1001
 REMARK 3 L13: 0.0867 L23: 0.1097
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.2072 S12: -0.3608 S13: 0.0899
 REMARK 3 S21: 0.1669 S22: 0.1350 S23: 0.0397
 REMARK 3 S31: -0.1683 S32: -0.1803 S33: 0.0225
 REMARK 3 TLS GROUP : 3
 REMARK 3 SELECTION: CHAIN 'A' AND (RESID 86 THROUGH 102)

REMARK 3 ORIGIN FOR THE GROUP (A): 11.2092 -25.6495 -8.0892
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.2308 T22: 0.2543
 REMARK 3 T33: 0.1686 T12: 0.0577
 REMARK 3 T13: -0.0027 T23: 0.0453
 REMARK 3 L TENSOR
 REMARK 3 L11: 1.3594 L22: 4.8708
 REMARK 3 L33: 2.7132 L12: -2.2527
 REMARK 3 L13: -0.4914 L23: -0.8920
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.3291 S12: -0.4173 S13: -0.1837
 REMARK 3 S21: 0.4689 S22: 0.3497 S23: 0.3786
 REMARK 3 S31: -0.0319 S32: -0.2347 S33: 0.0325
 REMARK 3 TLS GROUP : 4
 REMARK 3 SELECTION: CHAIN 'A' AND (RESID 103 THROUGH 112)

REMARK 3 ORIGIN FOR THE GROUP (A): 9.9113 -28.5600 -12.5559
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.1161 T22: 0.1865
 REMARK 3 T33: 0.1048 T12: 0.0516
 REMARK 3 T13: 0.0252 T23: 0.0412
 REMARK 3 L TENSOR
 REMARK 3 L11: 4.6460 L22: 7.3079
 REMARK 3 L33: 3.2883 L12: 2.7736
 REMARK 3 L13: 1.7977 L23: 2.2869
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0003 S12: -0.7291 S13: -0.2368
 REMARK 3 S21: 0.3632 S22: -0.1622 S23: -0.1008
 REMARK 3 S31: 0.1180 S32: -0.5140 S33: 0.1138
 REMARK 3 TLS GROUP : 5
 REMARK 3 SELECTION: CHAIN 'A' AND (RESID 113 THROUGH 141)

REMARK 3 ORIGIN FOR THE GROUP (A): 3.3591 -25.4410 -17.0045
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.0913 T22: 0.2020
 REMARK 3 T33: 0.1301 T12: 0.0564
 REMARK 3 T13: 0.0268 T23: 0.0163
 REMARK 3 L TENSOR
 REMARK 3 L11: 1.8271 L22: 2.1442
 REMARK 3 L33: 1.1852 L12: -1.3140
 REMARK 3 L13: 0.0513 L23: -0.2498
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0946 S12: -0.4100 S13: -0.1455

REMARK 3 S21: 0.1554 S22: 0.0800 S23: 0.1498
REMARK 3 S31: -0.0416 S32: -0.1855 S33: 0.0234
REMARK 3 TLS GROUP : 6
REMARK 3 SELECTION: CHAIN 'A' AND (RESID 142 THROUGH 156)

REMARK 3 ORIGIN FOR THE GROUP (A): 16.7345 -21.5387 -18.8739
REMARK 3 T TENSOR
REMARK 3 T11: 0.0824 T22: 0.1298
REMARK 3 T33: 0.1331 T12: -0.0083
REMARK 3 T13: -0.0092 T23: -0.0045
REMARK 3 L TENSOR
REMARK 3 L11: 3.5324 L22: 3.0896
REMARK 3 L33: 2.5064 L12: -1.9262
REMARK 3 L13: 1.0637 L23: -0.3943
REMARK 3 S TENSOR
REMARK 3 S11: -0.1630 S12: -0.0716 S13: 0.1040
REMARK 3 S21: -0.2080 S22: 0.0749 S23: -0.2821
REMARK 3 S31: -0.2703 S32: 0.0550 S33: 0.1135
REMARK 3 TLS GROUP : 7
REMARK 3 SELECTION: CHAIN 'A' AND (RESID 157 THROUGH 185)

REMARK 3 ORIGIN FOR THE GROUP (A): 2.0072 -18.4595 -18.8159
REMARK 3 T TENSOR
REMARK 3 T11: 0.1197 T22: 0.1842
REMARK 3 T33: 0.0974 T12: 0.0497
REMARK 3 T13: -0.0153 T23: -0.0094
REMARK 3 L TENSOR
REMARK 3 L11: 2.0450 L22: 2.1579
REMARK 3 L33: 1.1541 L12: -1.0209
REMARK 3 L13: -0.1235 L23: 0.4893
REMARK 3 S TENSOR
REMARK 3 S11: -0.1653 S12: -0.2779 S13: 0.1061
REMARK 3 S21: 0.1804 S22: 0.1385 S23: 0.0186
REMARK 3 S31: -0.0938 S32: -0.2112 S33: 0.0104
REMARK 3 TLS GROUP : 8
REMARK 3 SELECTION: CHAIN 'B' AND (RESID 1 THROUGH 20)
REMARK 3 ORIGIN FOR THE GROUP (A): -28.3573 -21.0667 -44.7718
REMARK 3 T TENSOR
REMARK 3 T11: 0.1757 T22: 0.1567
REMARK 3 T33: 0.1371 T12: -0.0267
REMARK 3 T13: 0.0045 T23: -0.0257
REMARK 3 L TENSOR
REMARK 3 L11: 2.4388 L22: 2.8741
REMARK 3 L33: 3.1348 L12: -1.2527
REMARK 3 L13: 0.8404 L23: -0.6631
REMARK 3 S TENSOR
REMARK 3 S11: -0.0671 S12: -0.0381 S13: -0.1501
REMARK 3 S21: 0.2110 S22: -0.1046 S23: -0.0460
REMARK 3 S31: 0.2016 S32: -0.1554 S33: 0.1147
REMARK 3 TLS GROUP : 9
REMARK 3 SELECTION: CHAIN 'B' AND (RESID 21 THROUGH 85)
REMARK 3 ORIGIN FOR THE GROUP (A): -22.7424 -14.6707 -39.9691
REMARK 3 T TENSOR

REMARK 3 T11: 0.1345 T22: 0.1040
 REMARK 3 T33: 0.0974 T12: -0.0229
 REMARK 3 T13: 0.0052 T23: 0.0070
 REMARK 3 L TENSOR
 REMARK 3 L11: 1.4922 L22: 1.0571
 REMARK 3 L33: 1.2749 L12: 0.0664
 REMARK 3 L13: -0.2456 L23: 0.2571
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0274 S12: -0.1098 S13: -0.1216
 REMARK 3 S21: 0.1463 S22: -0.0064 S23: 0.0272
 REMARK 3 S31: 0.1860 S32: -0.0433 S33: 0.0417
 REMARK 3 TLS GROUP : 10
 REMARK 3 SELECTION: CHAIN 'B' AND (RESID 86 THROUGH 102)

REMARK 3 ORIGIN FOR THE GROUP (A): -11.2103 -9.4673 -30.2715
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.2137 T22: 0.1496
 REMARK 3 T33: 0.1008 T12: 0.0210
 REMARK 3 T13: -0.0075 T23: -0.0208
 REMARK 3 L TENSOR
 REMARK 3 L11: 5.3646 L22: 1.4615
 REMARK 3 L33: 1.0748 L12: -1.3169
 REMARK 3 L13: 1.3109 L23: -0.6266
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.1303 S12: -0.1255 S13: -0.0950
 REMARK 3 S21: 0.2780 S22: 0.0451 S23: -0.1774
 REMARK 3 S31: 0.0785 S32: -0.0718 S33: 0.1062
 REMARK 3 TLS GROUP : 11
 REMARK 3 SELECTION: CHAIN 'B' AND (RESID 103 THROUGH 112)

REMARK 3 ORIGIN FOR THE GROUP (A): -9.8123 -11.6432 -33.9187
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.1681 T22: 0.1389
 REMARK 3 T33: 0.1378 T12: -0.0021
 REMARK 3 T13: -0.0291 T23: 0.0183
 REMARK 3 L TENSOR
 REMARK 3 L11: 5.2588 L22: 3.6616
 REMARK 3 L33: 3.9269 L12: -1.8113
 REMARK 3 L13: -0.0706 L23: 0.9700
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.0729 S12: -0.0776 S13: -0.3229
 REMARK 3 S21: 0.3090 S22: 0.0589 S23: -0.0340
 REMARK 3 S31: 0.4581 S32: -0.0363 S33: -0.0025
 REMARK 3 TLS GROUP : 12
 REMARK 3 SELECTION: CHAIN 'B' AND (RESID 113 THROUGH 124)

REMARK 3 ORIGIN FOR THE GROUP (A): -10.2557 -26.9480 -45.5203
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.4748 T22: 0.2572
 REMARK 3 T33: 0.5760 T12: 0.0773
 REMARK 3 T13: -0.1449 T23: -0.0732
 REMARK 3 L TENSOR
 REMARK 3 L11: 0.5934 L22: 0.4705

REMARK 3 L33: 0.5927 L12: 0.1640
REMARK 3 L13: -0.5883 L23: -0.2007
REMARK 3 S TENSOR
REMARK 3 S11: 0.0539 S12: -0.0286 S13: -0.8568
REMARK 3 S21: 0.5617 S22: 0.3556 S23: -1.0878
REMARK 3 S31: 0.8305 S32: 0.4172 S33: -0.1149
REMARK 3 TLS GROUP : 13
REMARK 3 SELECTION: CHAIN 'B' AND (RESID 125 THROUGH 166)

REMARK 3 ORIGIN FOR THE GROUP (A): -14.1521 -7.4796 -39.6016
REMARK 3 T TENSOR
REMARK 3 T11: 0.0967 T22: 0.1080
REMARK 3 T33: 0.1099 T12: 0.0175
REMARK 3 T13: -0.0145 T23: 0.0061
REMARK 3 L TENSOR
REMARK 3 L11: 1.9685 L22: 1.8381
REMARK 3 L33: 1.6347 L12: 0.6634
REMARK 3 L13: 0.0649 L23: 0.6162
REMARK 3 S TENSOR
REMARK 3 S11: -0.0437 S12: -0.0497 S13: 0.0127
REMARK 3 S21: 0.0781 S22: 0.0725 S23: -0.1727
REMARK 3 S31: 0.1355 S32: 0.0987 S33: -0.0426
REMARK 3 TLS GROUP : 14
REMARK 3 SELECTION: CHAIN 'B' AND (RESID 167 THROUGH 185)

REMARK 3 ORIGIN FOR THE GROUP (A): -26.1437 -16.0144 -37.9159
REMARK 3 T TENSOR
REMARK 3 T11: 0.1763 T22: 0.1494
REMARK 3 T33: 0.1147 T12: -0.0192
REMARK 3 T13: 0.0043 T23: -0.0033
REMARK 3 L TENSOR
REMARK 3 L11: 2.2596 L22: 1.9171
REMARK 3 L33: 2.0756 L12: 1.0177
REMARK 3 L13: -0.2419 L23: 0.1930
REMARK 3 S TENSOR
REMARK 3 S11: 0.0309 S12: -0.2818 S13: -0.1438
REMARK 3 S21: 0.2967 S22: -0.0375 S23: 0.0263
REMARK 3 S31: 0.3876 S32: -0.0012 S33: 0.0492
REMARK 3 TLS GROUP : 15
REMARK 3 SELECTION: CHAIN 'C' AND (RESID 2 THROUGH 20)
REMARK 3 ORIGIN FOR THE GROUP (A): -20.1145 -4.3943 0.0423
REMARK 3 T TENSOR
REMARK 3 T11: 0.3151 T22: 0.2981
REMARK 3 T33: 0.3679 T12: -0.0918
REMARK 3 T13: -0.1710 T23: 0.0889
REMARK 3 L TENSOR
REMARK 3 L11: 3.5236 L22: 4.5697
REMARK 3 L33: 5.5632 L12: -0.5525
REMARK 3 L13: 1.2117 L23: -0.1707
REMARK 3 S TENSOR
REMARK 3 S11: 0.2701 S12: -0.0212 S13: -0.5456
REMARK 3 S21: 0.0799 S22: 0.2827 S23: 1.0646
REMARK 3 S31: 0.7478 S32: -0.6348 S33: -0.4695

REMARK 3 TLS GROUP : 16
 REMARK 3 SELECTION: CHAIN 'C' AND (RESID 21 THROUGH 34)
 REMARK 3 ORIGIN FOR THE GROUP (A): -16.8581 -6.8161 -6.2287
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.4388 T22: 0.4301
 REMARK 3 T33: 0.3814 T12: 0.3165
 REMARK 3 T13: -0.3867 T23: -0.0513
 REMARK 3 L TENSOR
 REMARK 3 L11: 2.2869 L22: 3.6176
 REMARK 3 L33: 4.0125 L12: -1.5084
 REMARK 3 L13: 1.5107 L23: -1.8920
 REMARK 3 S TENSOR
 REMARK 3 S11: 0.7160 S12: 0.0451 S13: -0.9207
 REMARK 3 S21: -0.8597 S22: -0.0774 S23: 0.4664
 REMARK 3 S31: 0.8666 S32: 0.3094 S33: -0.0420
 REMARK 3 TLS GROUP : 17
 REMARK 3 SELECTION: CHAIN 'C' AND (RESID 35 THROUGH 85)
 REMARK 3 ORIGIN FOR THE GROUP (A): -16.6302 6.2585 -4.2298
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.3200 T22: 0.2405
 REMARK 3 T33: 0.1862 T12: 0.0609
 REMARK 3 T13: 0.0157 T23: 0.0475
 REMARK 3 L TENSOR
 REMARK 3 L11: 3.7079 L22: 3.9865
 REMARK 3 L33: 5.8413 L12: -1.5152
 REMARK 3 L13: 1.9325 L23: -2.3472
 REMARK 3 S TENSOR
 REMARK 3 S11: 0.3593 S12: 0.2912 S13: 0.0305
 REMARK 3 S21: 0.4082 S22: -0.0794 S23: -0.0809
 REMARK 3 S31: -0.4654 S32: 0.0005 S33: -0.0537
 REMARK 3 TLS GROUP : 18
 REMARK 3 SELECTION: CHAIN 'C' AND (RESID 86 THROUGH 112)
 REMARK 3 ORIGIN FOR THE GROUP (A): -19.4903 15.4867 -14.2949
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.2696 T22: 0.2849
 REMARK 3 T33: 0.1954 T12: 0.0083
 REMARK 3 T13: -0.0205 T23: 0.0907
 REMARK 3 L TENSOR
 REMARK 3 L11: 3.2203 L22: 4.2902
 REMARK 3 L33: 3.8381 L12: -2.5010
 REMARK 3 L13: 2.4302 L23: -0.9386
 REMARK 3 S TENSOR
 REMARK 3 S11: -0.1841 S12: 0.2041 S13: 0.0396
 REMARK 3 S21: 0.5110 S22: -0.1390 S23: -0.1358
 REMARK 3 S31: -0.2556 S32: 0.5570 S33: 0.1875
 REMARK 3 TLS GROUP : 19
 REMARK 3 SELECTION: CHAIN 'C' AND (RESID 113 THROUGH 124)
 REMARK 3 ORIGIN FOR THE GROUP (A): -33.1080 8.4485 1.2824
 REMARK 3 T TENSOR
 REMARK 3 T11: 0.7064 T22: 0.5772
 REMARK 3 T33: 0.7716 T12: 0.0858

REMARK 3 T13: 0.3868 T23: 0.2309
REMARK 3 L TENSOR
REMARK 3 L11: 0.5603 L22: 4.5862
REMARK 3 L33: 2.8544 L12: -1.2356
REMARK 3 L13: -0.3163 L23: -1.5391
REMARK 3 S TENSOR
REMARK 3 S11: -0.2752 S12: -0.5478 S13: -0.5842
REMARK 3 S21: 0.3640 S22: 0.7865 S23: 1.2804
REMARK 3 S31: -0.1500 S32: -1.3605 S33: -0.4396
REMARK 3 TLS GROUP : 20
REMARK 3 SELECTION: CHAIN 'C' AND (RESID 125 THROUGH 185)

REMARK 3 ORIGIN FOR THE GROUP (A): -15.2944 9.7380 -6.2454

REMARK 3 T TENSOR

REMARK 3 T11: 0.3936 T22: 0.2809

REMARK 3 T33: 0.1925 T12: 0.0227

REMARK 3 T13: -0.0247 T23: -0.0020

REMARK 3 L TENSOR

REMARK 3 L11: 3.2440 L22: 2.6931

REMARK 3 L33: 4.9663 L12: -0.1727

REMARK 3 L13: 1.8322 L23: -2.2225

REMARK 3 S TENSOR

REMARK 3 S11: 0.0340 S12: 0.2617 S13: 0.0712

REMARK 3 S21: 0.5482 S22: -0.0413 S23: -0.1878

REMARK 3 S31: -0.6528 S32: 0.4477 S33: -0.0297

REMARK 3

REMARK 3 NCS DETAILS

REMARK 3 NUMBER OF NCS GROUPS : NULL

REMARK 3

REMARK 3 OTHER REFINEMENT REMARKS: ITERATIVE ROUNDS OF MODEL BUILDING IN

REMARK 3 COOT AND REFINEMENT IN PHENIX. REFINEMENT PARAMETERS INCLUDED

REMARK 3 REAL AND RECIPROCAL SPACE, INDIVIDUAL ADPS, OCCUPANCIES,

REMARK 3 OPTIMIZATION OF X-RAY TO STEREOCHEMICAL AND X-RAY TO ADP

REMARK 3 WEIGHTS. HYDROGENS WERE ADDED AUTOMATICALLY AND AUTOMATIC

REMARK 3 CORRECTION OF N/Q/H ERRORS WAS USED. UPDATED SOLVENT MODEL WAS

REMARK 3 USED IN THE PENULTIMATE ROUND OF REFINEMENT. MANUAL MODELING OF

REMARK 3 SOLVENT WAS CONDUCTED BEFORE THE FINAL ROUND OF REFINEMENT.

REMARK 4

REMARK 4 5TVV COMPLIES WITH FORMAT V. 3.30, 13-JUL-11

REMARK 100

REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB ON 17-NOV-16.

REMARK 100 THE DEPOSITION ID IS D_1000224895.

REMARK 200

REMARK 200 EXPERIMENTAL DETAILS

REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : 09-JUL-15
REMARK 200 TEMPERATURE (KELVIN) : 80
REMARK 200 PH : 7.5
REMARK 200 NUMBER OF CRYSTALS USED : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N) : Y
REMARK 200 RADIATION SOURCE : ALS
REMARK 200 BEAMLINE : 8.2.2
REMARK 200 X-RAY GENERATOR MODEL : NULL
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE (A) : 0.976246
REMARK 200 MONOCHROMATOR : DOUBLE-CRYSTAL SI(111)

REMARK 200 OPTICS : NULL
REMARK 200
REMARK 200 DETECTOR TYPE : CCD
REMARK 200 DETECTOR MANUFACTURER : ADSC QUANTUM 315R

REMARK 200 INTENSITY-INTEGRATION SOFTWARE : HKL-2000

REMARK 200 DATA SCALING SOFTWARE : HKL-2000, HKL
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 52362
REMARK 200 RESOLUTION RANGE HIGH (A) : 1.790
REMARK 200 RESOLUTION RANGE LOW (A) : 43.861
REMARK 200 REJECTION CRITERIA (SIGMA(I)) : NULL
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%) : 98.5
REMARK 200 DATA REDUNDANCY : 7.800
REMARK 200 R MERGE (I) : 0.11000
REMARK 200 R SYM (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR THE DATA SET : 13.5280
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 1.79

REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A) : 1.85

REMARK 200 COMPLETENESS FOR SHELL (%) : 92.8
REMARK 200 DATA REDUNDANCY IN SHELL : 5.90
REMARK 200 R MERGE FOR SHELL (I) : 0.77800
REMARK 200 R SYM FOR SHELL (I) : NULL
REMARK 200 <I/SIGMA(I)> FOR SHELL : 1.538
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH

REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MOLECULAR
REPLACEMENT
REMARK 200 SOFTWARE USED: PHASER 2.5.6
REMARK 200 STARTING MODEL: 2QZ3
REMARK 200

REMARK 200 REMARK: ROD-LIKE CRYSTALS WITH LONGEST DIMENSION OF APPROXIMATELY

REMARK 200 200 MICRONS.

REMARK 280

REMARK 280 CRYSTAL

REMARK 280 SOLVENT CONTENT, VS (%): 46.13

REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 2.28

REMARK 280

REMARK 280 CRYSTALLIZATION CONDITIONS: 0.8M SODIUM PHOSPHATE, 0.8M POTASSIUM

REMARK 280 PHOSPHATE, 0.1M HEPES PH 7.5, VAPOR DIFFUSION, SITTING DROP,

REMARK 280 TEMPERATURE 293.15K

REMARK 290

REMARK 290 CRYSTALLOGRAPHIC SYMMETRY

REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 21 21 21

REMARK 290

REMARK 290 SYMOP SYMMETRY

REMARK 290 NNNMMM OPERATOR

REMARK 290 1555 X,Y,Z

REMARK 290 2555 -X+1/2,-Y,Z+1/2

REMARK 290 3555 -X,Y+1/2,-Z+1/2

REMARK 290 4555 X+1/2,-Y+1/2,-Z

REMARK 290

REMARK 290 WHERE NNN -> OPERATOR NUMBER

REMARK 290 MMM -> TRANSLATION VECTOR

REMARK 290

REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS

REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM

REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY

REMARK 290 RELATED MOLECULES.

REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000 0.00000

REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000 0.00000

REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000 0.00000

REMARK 290 SMTRY1 2 -1.000000 0.000000 0.000000 27.38000

REMARK 290 SMTRY2 2 0.000000 -1.000000 0.000000 0.00000

REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000 68.77900

REMARK 290 SMTRY1 3 -1.000000 0.000000 0.000000 0.00000

REMARK 290 SMTRY2 3 0.000000 1.000000 0.000000 36.62950

REMARK 290 SMTRY3 3 0.000000 0.000000 -1.000000 68.77900

REMARK 290 SMTRY1 4 1.000000 0.000000 0.000000 27.38000

REMARK 290 SMTRY2 4 0.000000 -1.000000 0.000000 36.62950

REMARK 290 SMTRY3 4 0.000000 0.000000 -1.000000 0.00000

REMARK 290

REMARK 290 REMARK: NULL

REMARK 300

REMARK 300 BIOMOLECULE: 1, 2, 3

REMARK 300 SEE REMARK 350 FOR THE AUTHOR PROVIDED AND/OR

PROGRAM

REMARK 300 GENERATED ASSEMBLY INFORMATION FOR THE STRUCTURE IN

REMARK 300 THIS ENTRY. THE REMARK MAY ALSO PROVIDE INFORMATION ON

REMARK 300 BURIED SURFACE AREA.

REMARK 350

REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN

REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE

REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS

REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND

REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.

REMARK 350

REMARK 350 BIOMOLECULE: 1

REMARK 350 AUTHOR DETERMINED BIOLOGICAL UNIT: MONOMERIC

REMARK 350 APPLY THE FOLLOWING TO CHAINS: A

REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.00000

REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000 0.00000

REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000 0.00000

REMARK 350

REMARK 350 BIOMOLECULE: 2

REMARK 350 AUTHOR DETERMINED BIOLOGICAL UNIT: MONOMERIC

REMARK 350 APPLY THE FOLLOWING TO CHAINS: B

REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.00000

REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000 0.00000

REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000 0.00000

REMARK 350

REMARK 350 BIOMOLECULE: 3

REMARK 350 AUTHOR DETERMINED BIOLOGICAL UNIT: MONOMERIC

REMARK 350 APPLY THE FOLLOWING TO CHAINS: C

REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.00000

REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000 0.00000

REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000 0.00000

REMARK 465

REMARK 465 MISSING RESIDUES

REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE

REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN

REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)

REMARK 465

REMARK 465 M RES C SSSEQI

REMARK 465 GLY A -2

REMARK 465 PRO A -1

REMARK 465 HIS A 0
 REMARK 465 GLY B -2
 REMARK 465 PRO B -1
 REMARK 465 HIS B 0
 REMARK 465 GLY C -2
 REMARK 465 PRO C -1
 REMARK 465 HIS C 0
 REMARK 465 MET C 1
 REMARK 470
 REMARK 470 MISSING ATOM
 REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL
 NUMBER;
 REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE
 NUMBER;
 REMARK 470 I=INSERTION CODE):
 REMARK 470 M RES CSSEQI ATOMS
 REMARK 470 MET A 1 CG SD CE
 REMARK 470 ARG A 122 CD NE CZ NH1 NH2
 REMARK 470 MET B 1 CG SD CE
 REMARK 470 ASP B 121 CG OD1 OD2
 REMARK 470 ILE C 15 CG1 CG2 CD1
 REMARK 470 VAL C 16 CG1 CG2
 REMARK 470 ASN C 17 CG OD1 ND2
 REMARK 470 SER C 31 OG
 REMARK 470 ASN C 32 CG OD1 ND2
 REMARK 470 ASN C 61 CG OD1 ND2
 REMARK 470 LYS C 95 CE NZ
 REMARK 470 LYS C 99 CG CD CE NZ
 REMARK 470 ARG C 112 NE CZ NH1 NH2
 REMARK 470 TYR C 113 CG CD1 CD2 CE1 CE2 CZ OH
 REMARK 470 ASN C 114 CG OD1 ND2
 REMARK 470 SER C 117 OG
 REMARK 470 ASP C 121 CG OD1 OD2
 REMARK 470 ARG C 122 CG CD NE CZ NH1 NH2
 REMARK 470 THR C 123 OG1 CG2
 REMARK 470 TYR C 174 CD1 CD2 CE1 CE2 CZ OH
 REMARK 470 GLN C 175 CD OE1 NE2
 REMARK 500
 REMARK 500 GEOMETRY AND STEREOCHEMISTRY
 REMARK 500 SUBTOPIC: CLOSE CONTACTS IN SAME ASYMMETRIC UNIT

 REMARK 500
 REMARK 500 THE FOLLOWING ATOMS ARE IN CLOSE CONTACT.

 REMARK 500

REMARK 500	ATM1	RES	C	SSEQI	ATM2	RES	C	SSEQI	DISTANCE
REMARK 500	O	HOH	B	346	O	HOH	B	421	2.02
REMARK 500	O	HOH	B	342	O	HOH	B	416	2.17
REMARK 500	O	HOH	C	334	O	HOH	C	353	2.18
REMARK 500	O	HOH	A	389	O	HOH	B	449	2.19

 REMARK 500
 REMARK 500 REMARK: NULL

REMARK 500
 REMARK 500 GEOMETRY AND STEREOCHEMISTRY
 REMARK 500 SUBTOPIC: CLOSE CONTACTS
 REMARK 500
 REMARK 500 THE FOLLOWING ATOMS THAT ARE RELATED BY
 CRYSTALLOGRAPHIC
 REMARK 500 SYMMETRY ARE IN CLOSE CONTACT. AN ATOM LOCATED
 WITHIN 0.15
 REMARK 500 ANGSTROMS OF A SYMMETRY RELATED ATOM IS ASSUMED
 TO BE ON A
 REMARK 500 SPECIAL POSITION AND IS, THEREFORE, LISTED IN REMARK
 375
 REMARK 500 INSTEAD OF REMARK 500. ATOMS WITH NON-BLANK
 ALTERNATE
 REMARK 500 LOCATION INDICATORS ARE NOT INCLUDED IN THE
 CALCULATIONS.
 REMARK 500
 REMARK 500 DISTANCE CUTOFF:
 REMARK 500 2.2 ANGSTROMS FOR CONTACTS NOT INVOLVING HYDROGEN
 ATOMS
 REMARK 500 1.6 ANGSTROMS FOR CONTACTS INVOLVING HYDROGEN
 ATOMS
 REMARK 500
 REMARK 500 ATM1 RES C SSEQI ATM2 RES C SSEQI SSYMOP
 DISTANCE
 REMARK 500 O HOH A 399 O HOH C 353 4545 2.04
 REMARK 500
 REMARK 500 REMARK: NULL
 REMARK 500
 REMARK 500 GEOMETRY AND STEREOCHEMISTRY
 REMARK 500 SUBTOPIC: TORSION ANGLES
 REMARK 500
 REMARK 500 TORSION ANGLES OUTSIDE THE EXPECTED RAMACHANDRAN
 REGIONS:
 REMARK 500 (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
 IDENTIFIER;
 REMARK 500 SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).

 REMARK 500
 REMARK 500 STANDARD TABLE:
 REMARK 500 FORMAT:(10X,I3,1X,A3,1X,A1,I4,A1,4X,F7.2,3X,F7.2)
 REMARK 500
 REMARK 500 EXPECTED VALUES: GJ KLEYWEGT AND TA JONES (1996).
 PHI/PSI-
 REMARK 500 CHOLOGY: RAMACHANDRAN REVISITED. STRUCTURE 4, 1395 -
 1400
 REMARK 500

M	RES	C	SSEQI	PSI	PHI
ASP	A	4		29.42	-152.55
ALA	A	165		-155.26	-106.09
ASP	B	4		20.75	-141.31
SER	B	74		60.39	62.17
ALA	B	165		-150.14	-106.68

REMARK 500 ASP C 4 26.28 -144.37
REMARK 500 SER C 117 -157.56 -143.80
REMARK 500 ASP C 119 49.08 -100.55
REMARK 500 ALA C 165 -151.78 -94.65
REMARK 500 GLN C 175 61.74 28.58
REMARK 500 GLN C 175 62.27 28.58

REMARK 500

REMARK 500 REMARK: NULL

REMARK 620

REMARK 620 METAL COORDINATION

REMARK 620 (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER;

REMARK 620 SSEQ=SEQUENCE NUMBER; I=INSERTION CODE):

REMARK 620

REMARK 620 COORDINATION ANGLES FOR: M RES CSSEQUI METAL

REMARK 620 K A 201 K

REMARK 620 N RES CSSEQUI ATOM

REMARK 620 1 ASN A 20 O

REMARK 620 2 ASN A 20 OD1 68.1

REMARK 620 3 GLY A 21 O 75.0 64.5

REMARK 620 4 TYR B 94 OH 154.1 88.7 84.8

REMARK 620 5 ASP B 106 OD1 99.0 102.2 166.6 97.1

REMARK 620 6 HOH B 390 O 84.1 143.4 86.1 111.0 105.5

REMARK 620 N 1 2 3 4 5

REMARK 620

REMARK 620 COORDINATION ANGLES FOR: M RES CSSEQUI METAL

REMARK 620 K B 201 K

REMARK 620 N RES CSSEQUI ATOM

REMARK 620 1 ASN B 20 O

REMARK 620 2 ASN B 20 OD1 64.0

REMARK 620 3 GLY B 21 O 73.0 64.8

REMARK 620 4 TYR C 94 OH 80.3 61.5 9.8

REMARK 620 5 ASP C 106 OD1 77.5 58.4 9.8 3.5

REMARK 620 6 HOH C 356 O 90.0 141.1 80.7 87.1 89.3

REMARK 620 N 1 2 3 4 5

REMARK 620

REMARK 620 COORDINATION ANGLES FOR: M RES CSSEQUI METAL

REMARK 620 K C 201 K

REMARK 620 N RES CSSEQUI ATOM

REMARK 620 1 ASN C 20 O

REMARK 620 2 ASN C 20 OD1 64.4

REMARK 620 3 GLY C 21 O 71.4 64.3

REMARK 620 4 TYR A 94 OH 91.2 141.9 80.7

REMARK 620 5 ASP A 106 OD1 90.5 139.7 78.4 2.3

REMARK 620 6 HOH A 360 O 91.3 145.8 85.8 5.3 7.6

REMARK 620 N 1 2 3 4 5

REMARK 800

REMARK 800 SITE

REMARK 800 SITE_IDENTIFIER: AC1

REMARK 800 EVIDENCE_CODE: SOFTWARE
 REMARK 800 SITE_DESCRIPTION: binding site for residue K A 201
 REMARK 800
 REMARK 800 SITE_IDENTIFIER: AC2
 REMARK 800 EVIDENCE_CODE: SOFTWARE
 REMARK 800 SITE_DESCRIPTION: binding site for residue K B 201
 REMARK 800
 REMARK 800 SITE_IDENTIFIER: AC3
 REMARK 800 EVIDENCE_CODE: SOFTWARE
 REMARK 800 SITE_DESCRIPTION: binding site for residue K C 201
 REMARK 900
 REMARK 900 RELATED ENTRIES
 REMARK 900 RELATED ID: 5TVY RELATED DB: PDB
 DBREF 5TVV A 2 185 UNP P18429 XYNA_BACSU 30 213
 DBREF 5TVV B 2 185 UNP P18429 XYNA_BACSU 30 213
 DBREF 5TVV C 2 185 UNP P18429 XYNA_BACSU 30 213
 SEQADV 5TVV GLY A -2 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV PRO A -1 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV HIS A 0 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV MET A 1 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV LEU A 7 UNP P18429 GLN 35 ENGINEERED MUTATION

 SEQADV 5TVV PHE A 9 UNP P18429 TRP 37 ENGINEERED MUTATION

 SEQADV 5TVV SER A 35 UNP P18429 ASN 63 ENGINEERED MUTATION

 SEQADV 5TVV TRP A 63 UNP P18429 ASN 91 ENGINEERED MUTATION

 SEQADV 5TVV ALA A 65 UNP P18429 TYR 93 ENGINEERED MUTATION

 SEQADV 5TVV ALA A 67 UNP P18429 THR 95 ENGINEERED MUTATION

 SEQADV 5TVV VAL A 69 UNP P18429 TYR 97 ENGINEERED MUTATION

 SEQADV 5TVV ALA A 78 UNP P18429 GLU 106 ENGINEERED MUTATION

 SEQADV 5TVV ALA A 88 UNP P18429 TYR 116 ENGINEERED MUTATION

 SEQADV 5TVV TRP A 90 UNP P18429 PRO 118 ENGINEERED MUTATION

 SEQADV 5TVV ALA A 172 UNP P18429 GLU 200 ENGINEERED MUTATION

 SEQADV 5TVV GLY B -2 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV PRO B -1 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV HIS B 0 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV MET B 1 UNP P18429 EXPRESSION TAG
 SEQADV 5TVV LEU B 7 UNP P18429 GLN 35 ENGINEERED MUTATION

 SEQADV 5TVV PHE B 9 UNP P18429 TRP 37 ENGINEERED MUTATION

 SEQADV 5TVV SER B 35 UNP P18429 ASN 63 ENGINEERED MUTATION

 SEQADV 5TVV TRP B 63 UNP P18429 ASN 91 ENGINEERED MUTATION

SEQADV 5TVV ALA B	65	UNP	P18429	TYR	93 ENGINEERED MUTATION
SEQADV 5TVV ALA B	67	UNP	P18429	THR	95 ENGINEERED MUTATION
SEQADV 5TVV VAL B	69	UNP	P18429	TYR	97 ENGINEERED MUTATION
SEQADV 5TVV ALA B	78	UNP	P18429	GLU	106 ENGINEERED MUTATION
SEQADV 5TVV ALA B	88	UNP	P18429	TYR	116 ENGINEERED MUTATION
SEQADV 5TVV TRP B	90	UNP	P18429	PRO	118 ENGINEERED MUTATION
SEQADV 5TVV ALA B	172	UNP	P18429	GLU	200 ENGINEERED MUTATION
SEQADV 5TVV GLY C	-2	UNP	P18429		EXPRESSION TAG
SEQADV 5TVV PRO C	-1	UNP	P18429		EXPRESSION TAG
SEQADV 5TVV HIS C	0	UNP	P18429		EXPRESSION TAG
SEQADV 5TVV MET C	1	UNP	P18429		EXPRESSION TAG
SEQADV 5TVV LEU C	7	UNP	P18429	GLN	35 ENGINEERED MUTATION
SEQADV 5TVV PHE C	9	UNP	P18429	TRP	37 ENGINEERED MUTATION
SEQADV 5TVV SER C	35	UNP	P18429	ASN	63 ENGINEERED MUTATION
SEQADV 5TVV TRP C	63	UNP	P18429	ASN	91 ENGINEERED MUTATION
SEQADV 5TVV ALA C	65	UNP	P18429	TYR	93 ENGINEERED MUTATION
SEQADV 5TVV ALA C	67	UNP	P18429	THR	95 ENGINEERED MUTATION
SEQADV 5TVV VAL C	69	UNP	P18429	TYR	97 ENGINEERED MUTATION
SEQADV 5TVV ALA C	78	UNP	P18429	GLU	106 ENGINEERED MUTATION
SEQADV 5TVV ALA C	88	UNP	P18429	TYR	116 ENGINEERED MUTATION
SEQADV 5TVV TRP C	90	UNP	P18429	PRO	118 ENGINEERED MUTATION
SEQADV 5TVV ALA C	172	UNP	P18429	GLU	200 ENGINEERED MUTATION
SEQRES 1 A 188	GLY PRO HIS MET SER THR ASP TYR TRP LEU ASN PHE THR				
SEQRES 2 A 188	ASP GLY GLY GLY ILE VAL ASN ALA VAL ASN GLY SER GLY				
SEQRES 3 A 188	GLY ASN TYR SER VAL ASN TRP SER ASN THR GLY SER PHE				
SEQRES 4 A 188	VAL VAL GLY LYS GLY TRP THR THR GLY SER PRO PHE ARG				
SEQRES 5 A 188	THR ILE ASN TYR ASN ALA GLY VAL TRP ALA PRO ASN GLY				
SEQRES 6 A 188	TRP GLY ALA LEU ALA LEU VAL GLY TRP THR ARG SER PRO				

SEQRES 7 A 188 LEU ILE ALA TYR TYR VAL VAL ASP SER TRP GLY THR
 ALA
 SEQRES 8 A 188 ARG TRP THR GLY THR TYR LYS GLY THR VAL LYS SER
 ASP
 SEQRES 9 A 188 GLY GLY THR TYR ASP ILE TYR THR THR THR ARG TYR
 ASN
 SEQRES 10 A 188 ALA PRO SER ILE ASP GLY ASP ARG THR THR PHE THR
 GLN
 SEQRES 11 A 188 TYR TRP SER VAL ARG GLN SER LYS ARG PRO THR GLY
 SER
 SEQRES 12 A 188 ASN ALA THR ILE THR PHE SER ASN HIS VAL ASN ALA
 TRP
 SEQRES 13 A 188 LYS SER HIS GLY MET ASN LEU GLY SER ASN TRP ALA
 TYR
 SEQRES 14 A 188 GLN VAL MET ALA THR ALA GLY TYR GLN SER SER GLY
 SER
 SEQRES 15 A 188 SER ASN VAL THR VAL TRP
 SEQRES 1 B 188 GLY PRO HIS MET SER THR ASP TYR TRP LEU ASN PHE
 THR
 SEQRES 2 B 188 ASP GLY GLY GLY ILE VAL ASN ALA VAL ASN GLY SER
 GLY
 SEQRES 3 B 188 GLY ASN TYR SER VAL ASN TRP SER ASN THR GLY SER
 PHE
 SEQRES 4 B 188 VAL VAL GLY LYS GLY TRP THR THR GLY SER PRO PHE
 ARG
 SEQRES 5 B 188 THR ILE ASN TYR ASN ALA GLY VAL TRP ALA PRO ASN
 GLY
 SEQRES 6 B 188 TRP GLY ALA LEU ALA LEU VAL GLY TRP THR ARG SER
 PRO
 SEQRES 7 B 188 LEU ILE ALA TYR TYR VAL VAL ASP SER TRP GLY THR
 ALA
 SEQRES 8 B 188 ARG TRP THR GLY THR TYR LYS GLY THR VAL LYS SER
 ASP
 SEQRES 9 B 188 GLY GLY THR TYR ASP ILE TYR THR THR THR ARG TYR
 ASN
 SEQRES 10 B 188 ALA PRO SER ILE ASP GLY ASP ARG THR THR PHE THR
 GLN
 SEQRES 11 B 188 TYR TRP SER VAL ARG GLN SER LYS ARG PRO THR GLY
 SER
 SEQRES 12 B 188 ASN ALA THR ILE THR PHE SER ASN HIS VAL ASN ALA
 TRP
 SEQRES 13 B 188 LYS SER HIS GLY MET ASN LEU GLY SER ASN TRP ALA
 TYR
 SEQRES 14 B 188 GLN VAL MET ALA THR ALA GLY TYR GLN SER SER GLY
 SER
 SEQRES 15 B 188 SER ASN VAL THR VAL TRP
 SEQRES 1 C 188 GLY PRO HIS MET SER THR ASP TYR TRP LEU ASN PHE
 THR
 SEQRES 2 C 188 ASP GLY GLY GLY ILE VAL ASN ALA VAL ASN GLY SER
 GLY
 SEQRES 3 C 188 GLY ASN TYR SER VAL ASN TRP SER ASN THR GLY SER
 PHE
 SEQRES 4 C 188 VAL VAL GLY LYS GLY TRP THR THR GLY SER PRO PHE

ARG
 SEQRES 5 C 188 THR ILE ASN TYR ASN ALA GLY VAL TRP ALA PRO ASN
 GLY
 SEQRES 6 C 188 TRP GLY ALA LEU ALA LEU VAL GLY TRP THR ARG SER
 PRO
 SEQRES 7 C 188 LEU ILE ALA TYR TYR VAL VAL ASP SER TRP GLY THR
 ALA
 SEQRES 8 C 188 ARG TRP THR GLY THR TYR LYS GLY THR VAL LYS SER
 ASP
 SEQRES 9 C 188 GLY GLY THR TYR ASP ILE TYR THR THR THR ARG TYR
 ASN
 SEQRES 10 C 188 ALA PRO SER ILE ASP GLY ASP ARG THR THR PHE THR
 GLN
 SEQRES 11 C 188 TYR TRP SER VAL ARG GLN SER LYS ARG PRO THR GLY
 SER
 SEQRES 12 C 188 ASN ALA THR ILE THR PHE SER ASN HIS VAL ASN ALA
 TRP
 SEQRES 13 C 188 LYS SER HIS GLY MET ASN LEU GLY SER ASN TRP ALA
 TYR
 SEQRES 14 C 188 GLN VAL MET ALA THR ALA GLY TYR GLN SER SER GLY
 SER
 SEQRES 15 C 188 SER ASN VAL THR VAL TRP
 HET K A 201 1
 HET K B 201 1
 HET K C 201 1
 HETNAM K POTASSIUM ION
 FORMUL 4 K 3(K 1+)
 FORMUL 7 HOH *367(H2 O)
 HELIX 1 AA1 PHE A 146 HIS A 156 1 11
 HELIX 2 AA2 PHE B 146 HIS B 156 1 11
 HELIX 3 AA3 PHE C 146 SER C 155 1 10
 SHEET 1 AA116 THR A 93 SER A 100 0
 SHEET 2 AA116 GLY A 103 SER A 117 -1 O ILE A 107 N GLY A 96
 SHEET 3 AA116 GLY A 120 ARG A 132 -1 O VAL A 131 N ASP A 106
 SHEET 4 AA116 ILE A 77 TRP A 85 1 N VAL A 82 O SER A 130
 SHEET 5 AA116 THR A 50 ARG A 73 -1 N LEU A 66 O SER A 84
 SHEET 6 AA116 ASN A 163 TRP A 185 -1 O SER A 177 N ASN A 61
 SHEET 7 AA116 SER A 35 TRP A 42 -1 N VAL A 38 O THR A 171
 SHEET 8 AA116 TYR A 5 THR A 10 -1 N LEU A 7 O GLY A 39
 SHEET 9 AA116 GLY B 92 SER B 100 -1 O GLY B 92 N TRP A 6
 SHEET 10 AA116 GLY B 103 SER B 117 -1 O ILE B 107 N GLY B 96
 SHEET 11 AA116 GLY B 120 ARG B 132 -1 O GLY B 120 N SER B 117
 SHEET 12 AA116 ILE B 77 TRP B 85 1 N VAL B 82 O SER B 130
 SHEET 13 AA116 THR B 50 ARG B 73 -1 N GLY B 70 O TYR B 79
 SHEET 14 AA116 ASN B 163 TRP B 185 -1 O ALA B 172 N ALA B 65
 SHEET 15 AA116 SER B 35 TRP B 42 -1 N TRP B 42 O GLN B 167
 SHEET 16 AA116 TYR B 5 THR B 10 -1 N LEU B 7 O GLY B 39
 SHEET 1 AA211 ILE A 15 ASN A 20 0
 SHEET 2 AA211 ASN A 25 SER A 31 -1 O SER A 27 N VAL A 19
 SHEET 3 AA211 ASN A 163 TRP A 185 -1 O VAL A 182 N TYR A 26
 SHEET 4 AA211 SER A 35 TRP A 42 -1 N VAL A 38 O THR A 171
 SHEET 5 AA211 TYR A 5 THR A 10 -1 N LEU A 7 O GLY A 39
 SHEET 6 AA211 GLY B 92 SER B 100 -1 O GLY B 92 N TRP A 6

SHEET 7 AA211 GLY B 103 SER B 117 -1 O ILE B 107 N GLY B 96
 SHEET 8 AA211 GLY B 120 ARG B 132 -1 O GLY B 120 N SER B 117
 SHEET 9 AA211 ILE B 77 TRP B 85 1 N VAL B 82 O SER B 130
 SHEET 10 AA211 THR B 50 ARG B 73 -1 N GLY B 70 O TYR B 79
 SHEET 11 AA211 ALA B 142 THR B 145 -1 O ALA B 142 N TYR B 53
 SHEET 1 AA310 ILE A 15 ASN A 20 0
 SHEET 2 AA310 ASN A 25 SER A 31 -1 O SER A 27 N VAL A 19
 SHEET 3 AA310 ASN A 163 TRP A 185 -1 O VAL A 182 N TYR A 26
 SHEET 4 AA310 THR A 50 ARG A 73 -1 N ASN A 61 O SER A 177
 SHEET 5 AA310 ALA A 142 THR A 145 -1 O ALA A 142 N TYR A 53
 SHEET 6 AA310 THR A 50 ARG A 73 -1 N TYR A 53 O ALA A 142
 SHEET 7 AA310 ILE A 77 TRP A 85 -1 O SER A 84 N LEU A 66
 SHEET 8 AA310 GLY A 120 ARG A 132 1 O SER A 130 N VAL A 82
 SHEET 9 AA310 GLY A 103 SER A 117 -1 N ASP A 106 O VAL A 131
 SHEET 10 AA310 THR A 93 SER A 100 -1 N GLY A 96 O ILE A 107
 SHEET 1 AA4 5 TYR B 5 THR B 10 0
 SHEET 2 AA4 5 SER B 35 TRP B 42 -1 O GLY B 39 N LEU B 7
 SHEET 3 AA4 5 ASN B 163 TRP B 185 -1 O GLN B 167 N TRP B 42
 SHEET 4 AA4 5 ASN B 25 SER B 31 -1 N TRP B 30 O GLY B 178
 SHEET 5 AA4 5 ILE B 15 ASN B 20 -1 N ASN B 17 O ASN B 29
 SHEET 1 AA5 5 ILE B 15 ASN B 20 0
 SHEET 2 AA5 5 ASN B 25 SER B 31 -1 O ASN B 29 N ASN B 17
 SHEET 3 AA5 5 ASN B 163 TRP B 185 -1 O GLY B 178 N TRP B 30
 SHEET 4 AA5 5 THR B 50 ARG B 73 -1 N ALA B 65 O ALA B 172
 SHEET 5 AA5 5 ALA B 142 THR B 145 -1 O ALA B 142 N TYR B 53
 SHEET 1 AA6 8 TYR C 5 THR C 10 0
 SHEET 2 AA6 8 SER C 35 TRP C 42 -1 O GLY C 39 N LEU C 7
 SHEET 3 AA6 8 ASN C 163 TRP C 185 -1 O THR C 171 N VAL C 38
 SHEET 4 AA6 8 THR C 50 ARG C 73 -1 N ALA C 65 O ALA C 172
 SHEET 5 AA6 8 ILE C 77 TRP C 85 -1 O SER C 84 N LEU C 66
 SHEET 6 AA6 8 THR C 123 ARG C 132 1 O SER C 130 N VAL C 82
 SHEET 7 AA6 8 GLY C 103 ALA C 115 -1 N ALA C 115 O THR C 123
 SHEET 8 AA6 8 THR C 93 SER C 100 -1 N VAL C 98 O TYR C 105
 SHEET 1 AA7 5 ILE C 15 ASN C 20 0
 SHEET 2 AA7 5 ASN C 25 SER C 31 -1 O SER C 27 N VAL C 19
 SHEET 3 AA7 5 ASN C 163 TRP C 185 -1 O SER C 180 N VAL C 28
 SHEET 4 AA7 5 THR C 50 ARG C 73 -1 N ALA C 65 O ALA C 172
 SHEET 5 AA7 5 ALA C 142 THR C 145 -1 O ILE C 144 N ILE C 51
 LINK O ASN A 20 K K A 201 1555 1555 2.78
 LINK OD1 ASN A 20 K K A 201 1555 1555 2.84
 LINK O GLY A 21 K K A 201 1555 1555 2.76
 LINK O ASN B 20 K K B 201 1555 1555 2.81
 LINK OD1 ASN B 20 K K B 201 1555 1555 3.01
 LINK O GLY B 21 K K B 201 1555 1555 2.83
 LINK OH TYR B 94 K K A 201 1555 1555 2.67
 LINK OD1 ASP B 106 K K A 201 1555 1555 2.71
 LINK O ASN C 20 K K C 201 1555 1555 2.74
 LINK OD1 ASN C 20 K K C 201 1555 1555 2.92
 LINK O GLY C 21 K K C 201 1555 1555 2.71
 LINK K K A 201 O HOH B 390 1555 1555 2.67
 LINK OH TYR A 94 K K C 201 1555 4545 2.72
 LINK OD1 ASP A 106 K K C 201 1555 4545 2.64
 LINK OH TYR C 94 K K B 201 1555 3454 2.80

LINK	OD1 ASP C 106	K	K B 201	1555	3454	2.60	
LINK	K	K B 201	O	HOH C 356	1555	3444	2.91
LINK	K	K C 201	O	HOH A 360	1555	4445	2.99
CISPEP	1 SER A 74	PRO A 75	0	-1.23			
CISPEP	2 SER B 74	PRO B 75	0	1.92			
CISPEP	3 SER C 74	PRO C 75	0	1.73			
SITE	1 AC1 7 ASN A 20	GLY A 21	TYR B 94	THR B 97			
SITE	2 AC1 7 ASP B 106	GLN B 133	HOH B 390				
SITE	1 AC2 5 ASN B 20	GLY B 21	TYR C 94	ASP C 106			
SITE	2 AC2 5 HOH C 356						
SITE	1 AC3 7 TYR A 94	THR A 97	ASP A 106	GLN A 133			
SITE	2 AC3 7 HOH A 360	ASN C 20	GLY C 21				
CRYST1	54.760	73.259	137.558	90.00	90.00	90.00	P 21 21 21 12
ORIGX1	1.000000	0.000000	0.000000	0.000000			
ORIGX2	0.000000	1.000000	0.000000	0.000000			
ORIGX3	0.000000	0.000000	1.000000	0.000000			
SCALE1	0.018262	0.000000	0.000000	0.000000			
SCALE2	0.000000	0.013650	0.000000	0.000000			
SCALE3	0.000000	0.000000	0.007270	0.000000			
ATOM	1 N MET A 1	10.518	-8.748	-29.729	1.00	63.76	N
ANISOU	1 N MET A 1	6872	7840	9513	-263	722 536	N
ATOM	2 CA MET A 1	9.467	-7.797	-30.197	1.00	61.68	C
ANISOU	2 CA MET A 1	6899	7382	9153	-335	665 566	C
ATOM	3 C MET A 1	8.390	-7.628	-29.131	1.00	55.67	C
ANISOU	3 C MET A 1	6263	6561	8329	-257	389 416	C
ATOM	4 O MET A 1	8.363	-8.370	-28.149	1.00	56.71	O
ANISOU	4 O MET A 1	6298	6802	8448	-138	273 307	O
ATOM	5 CB MET A 1	8.842	-8.292	-31.503	1.00	62.19	C
ANISOU	5 CB MET A 1	7216	7430	8983	-236	857 656	C
ATOM	6 H MET A 1	11.286	-8.312	-29.620	1.00	76.51	H
ATOM	7 HA MET A 1	9.877	-6.935	-30.369	1.00	74.01	H
ATOM	8 N SER A 2	7.504	-6.652	-29.317	1.00	46.95	N
ANISOU	8 N SER A 2	5380	5287	7174	-306	290 415	N
ATOM	9 CA SER A 2	6.381	-6.514	-28.407	1.00	35.79	C
ANISOU	9 CA SER A 2	4088	3836	5673	-197	64 279	C
ATOM	10 C SER A 2	5.413	-7.680	-28.608	1.00	26.20	C
ANISOU	10 C SER A 2	2987	2719	4248	-14	105 254	C
ATOM	11 O SER A 2	5.504	-8.446	-29.574	1.00	22.86	O
ANISOU	11 O SER A 2	2611	2345	3729	27	283 335	O
ATOM	12 CB SER A 2	5.678	-5.170	-28.605	1.00	35.64	C
ANISOU	12 CB SER A 2	4278	3611	5654	-265	-52 281	C
ATOM	13 OG SER A 2	4.900	-5.154	-29.789	1.00	35.73	O
ANISOU	13 OG SER A 2	4516	3555	5503	-221	53 370	O
ATOM	14 H SER A 2	7.532	-6.071	-29.950	1.00	56.34	H
ATOM	15 HA SER A 2	6.708	-6.550	-27.495	1.00	42.94	H
ATOM	16 HB2 SER A 2	5.096	-5.007	-27.847	1.00	42.77	H
ATOM	17 HB3 SER A 2	6.348	-4.472	-28.662	1.00	42.77	H
ATOM	18 HG SER A 2	4.525	-4.407	-29.876	1.00	42.87	H
ATOM	19 N THR A 3	4.489	-7.823	-27.663	1.00	22.44	N
ANISOU	19 N THR A 3	2556	2269	3700	96	-61 140	N
ATOM	20 CA THR A 3	3.617	-8.986	-27.630	1.00	19.97	C
ANISOU	20 CA THR A 3	2306	2054	3227	240	-40 114	C
ATOM	21 C THR A 3	2.665	-8.991	-28.821	1.00	18.92	C

ANISOU	21	C	THR A	3	2378	1852	2958	264	18	173	C
ATOM	22	O	THR A	3	2.345	-7.948	-29.397	1.00	18.10		O
ANISOU	22	O	THR A	3	2402	1619	2854	212	-10	207	O
ATOM	23	CB	THR A	3	2.815	-9.019	-26.327	1.00	19.45		C
ANISOU	23	CB	THR A	3	2233	2038	3121	338	-209	-2	C
ATOM	24	OG1	THR A	3	2.113	-7.783	-26.157	1.00	20.18		O
ANISOU	24	OG1	THR A	3	2432	2018	3218	331	-338	-49	O
ATOM	25	CG2	THR A	3	3.726	-9.243	-25.138	1.00	20.20		C
ANISOU	25	CG2	THR A	3	2155	2215	3305	352	-282	-67	C
ATOM	26	H	THR A	3	4.349	-7.259	-27.029	1.00	26.92		H
ATOM	27	HA	THR A	3	4.158	-9.790	-27.672	1.00	23.96		H
ATOM	28	HB	THR A	3	2.176	-9.748	-26.362	1.00	23.35		H
ATOM	29	HG1	THR A	3	1.586	-7.662	-26.800	1.00	24.22		H
ATOM	30	HG21	THR A	3	3.205	-9.262	-24.320	1.00	24.24		H
ATOM	31	HG22	THR A	3	4.193	-10.088	-25.234	1.00	24.24		H
ATOM	32	HG23	THR A	3	4.378	-8.527	-25.081	1.00	24.24		H
ATOM	33	N	ASP A	4	2.216	-10.199	-29.197	1.00	17.87		N
ANISOU	33	N	ASP A	4	2293	1792	2704	349	82	183	N
ATOM	34	CA	ASP A	4	1.262	-10.339	-30.293	1.00	18.15		C
ANISOU	34	CA	ASP A	4	2524	1770	2603	385	98	218	C
ATOM	35	C	ASP A	4	0.396	-11.589	-30.144	1.00	17.36		C
ANISOU	35	C	ASP A	4	2451	1744	2402	472	64	177	C
ATOM	36	O	ASP A	4	-0.059	-12.149	-31.148	1.00	16.74		O
ANISOU	36	O	ASP A	4	2515	1635	2212	501	98	206	O
ATOM	37	CB	ASP A	4	1.999	-10.371	-31.634	1.00	19.80		C
ANISOU	37	CB	ASP A	4	2827	1930	2766	348	274	325	C
ATOM	38	CG	ASP A	4	2.829	-11.629	-31.821	1.00	19.73		C
ANISOU	38	CG	ASP A	4	2748	2017	2733	398	419	346	C
ATOM	39	OD1	ASP A	4	2.972	-12.434	-30.878	1.00	19.20		O
ANISOU	39	OD1	ASP A	4	2552	2039	2702	446	377	286	O
ATOM	40	OD2	ASP A	4	3.340	-11.819	-32.935	1.00	22.88		O
ANISOU	40	OD2	ASP A	4	3239	2398	3058	408	580	425	O
ATOM	41	H	ASP A	4	2.450	-10.942	-28.833	1.00	21.44		H
ATOM	42	HA	ASP A	4	0.673	-9.569	-30.295	1.00	21.78		H
ATOM	43	HB2	ASP A	4	1.348	-10.332	-32.353	1.00	23.76		H
ATOM	44	HB3	ASP A	4	2.595	-9.608	-31.685	1.00	23.76		H
ATOM	45	N	TYR A	5	0.140	-12.029	-28.914	1.00	15.74		N
ANISOU	45	N	TYR A	5	2128	1625	2228	509	-9	114	N
ATOM	46	CA	TYR A	5	-0.614	-13.254	-28.699	1.00	15.44		C
ANISOU	46	CA	TYR A	5	2108	1645	2115	559	-28	97	C
ATOM	47	C	TYR A	5	-1.455	-13.128	-27.440	1.00	15.74		C
ANISOU	47	C	TYR A	5	2059	1756	2167	593	-132	39	C
ATOM	48	O	TYR A	5	-0.980	-12.628	-26.417	1.00	15.89		O
ANISOU	48	O	TYR A	5	1982	1813	2243	609	-167	0	O
ATOM	49	CB	TYR A	5	0.315	-14.464	-28.580	1.00	15.85		C
ANISOU	49	CB	TYR A	5	2120	1740	2162	588	69	118	C
ATOM	50	CG	TYR A	5	-0.404	-15.777	-28.768	1.00	16.04		C
ANISOU	50	CG	TYR A	5	2233	1762	2100	617	60	121	C
ATOM	51	CD1	TYR A	5	-0.570	-16.323	-30.035	1.00	17.46		C
ANISOU	51	CD1	TYR A	5	2575	1868	2192	625	99	144	C
ATOM	52	CD2	TYR A	5	-0.932	-16.460	-27.682	1.00	15.88		C
ANISOU	52	CD2	TYR A	5	2155	1800	2080	633	8	103	C
ATOM	53	CE1	TYR A	5	-1.232	-17.531	-30.212	1.00	17.95		C

ANISOU	53	CE1 TYR A	5	2735	1898	2189	634	59	136	C
ATOM	54	CE2 TYR A	5	-1.597	-17.666	-27.846	1.00	16.77		C
ANISOU	54	CE2 TYR A	5	2353	1885	2135	626	-6	119	C
ATOM	55	CZ TYR A	5	-1.745	-18.192	-29.114	1.00	18.13		C
ANISOU	55	CZ TYR A	5	2682	1966	2241	619	6	128	C
ATOM	56	OH TYR A	5	-2.409	-19.381	-29.281	1.00	19.43		O
ANISOU	56	OH TYR A	5	2945	2075	2363	595	-38	133	O
ATOM	57	H TYR A	5	0.392	-11.636	-28.192	1.00	18.89		H
ATOM	58	HA TYR A	5	-1.210	-13.401	-29.450	1.00	18.53		H
ATOM	59	HB2 TYR A	5	1.005	-14.401	-29.259	1.00	19.02		H
ATOM	60	HB3 TYR A	5	0.718	-14.467	-27.697	1.00	19.02		H
ATOM	61	HD1 TYR A	5	-0.223	-15.878	-30.774	1.00	20.96		H
ATOM	62	HD2 TYR A	5	-0.831	-16.107	-26.827	1.00	19.06		H
ATOM	63	HE1 TYR A	5	-1.336	-17.888	-31.064	1.00	21.54		H
ATOM	64	HE2 TYR A	5	-1.944	-18.114	-27.109	1.00	20.13		H
ATOM	65	HH TYR A	5	-2.667	-19.673	-28.536	1.00	23.32		H
ATOM	66	N TRP A	6	-2.703	-13.588	-27.528	1.00	15.42		N
ANISOU	66	N TRP A	6	2050	1738	2070	607	-182	32	N
ATOM	67	CA TRP A	6	-3.640	-13.600	-26.411	1.00	14.82		C
ANISOU	67	CA TRP A	6	1882	1758	1993	646	-242	-4	C
ATOM	68	C TRP A	6	-4.069	-15.038	-26.161	1.00	15.42		C
ANISOU	68	C TRP A	6	1946	1879	2034	625	-207	32	C
ATOM	69	O TRP A	6	-4.632	-15.686	-27.054	1.00	14.28		O
ANISOU	69	O TRP A	6	1875	1686	1863	579	-220	56	O
ATOM	70	CB TRP A	6	-4.850	-12.712	-26.704	1.00	14.58		C
ANISOU	70	CB TRP A	6	1860	1725	1955	675	-334	-36	C
ATOM	71	CG TRP A	6	-5.968	-12.798	-25.706	1.00	14.63		C
ANISOU	71	CG TRP A	6	1751	1855	1951	728	-366	-64	C
ATOM	72	CD1 TRP A	6	-7.269	-13.123	-25.967	1.00	14.54		C
ANISOU	72	CD1 TRP A	6	1689	1899	1935	722	-406	-57	C
ATOM	73	CD2 TRP A	6	-5.898	-12.537	-24.294	1.00	14.96		C
ANISOU	73	CD2 TRP A	6	1707	1992	1983	802	-354	-100	C
ATOM	74	NE1 TRP A	6	-8.010	-13.078	-24.811	1.00	15.56		N
ANISOU	74	NE1 TRP A	6	1685	2168	2060	784	-390	-73	N
ATOM	75	CE2 TRP A	6	-7.193	-12.725	-23.772	1.00	16.00		C
ANISOU	75	CE2 TRP A	6	1740	2248	2094	845	-355	-101	C
ATOM	76	CE3 TRP A	6	-4.866	-12.171	-23.421	1.00	15.63		C
ANISOU	76	CE3 TRP A	6	1789	2077	2072	840	-352	-136	C
ATOM	77	CZ2 TRP A	6	-7.488	-12.553	-22.423	1.00	17.87		C
ANISOU	77	CZ2 TRP A	6	1898	2608	2285	939	-322	-128	C
ATOM	78	CZ3 TRP A	6	-5.163	-12.009	-22.071	1.00	17.90		C
ANISOU	78	CZ3 TRP A	6	2025	2469	2307	916	-349	-174	C
ATOM	79	CH2 TRP A	6	-6.465	-12.196	-21.593	1.00	18.52		C
ANISOU	79	CH2 TRP A	6	2036	2664	2337	959	-317	-164	C
ATOM	80	H TRP A	6	-3.038	-13.910	-28.252	1.00	18.50		H
ATOM	81	HA TRP A	6	-3.199	-13.267	-25.614	1.00	17.79		H
ATOM	82	HB2 TRP A	6	-4.554	-11.789	-26.731	1.00	17.50		H
ATOM	83	HB3 TRP A	6	-5.212	-12.962	-27.568	1.00	17.50		H
ATOM	84	HD1 TRP A	6	-7.607	-13.330	-26.808	1.00	17.44		H
ATOM	85	HE1 TRP A	6	-8.851	-13.246	-24.750	1.00	18.67		H
ATOM	86	HE3 TRP A	6	-4.001	-12.038	-23.737	1.00	18.76		H
ATOM	87	HZ2 TRP A	6	-8.349	-12.687	-22.097	1.00	21.45		H
ATOM	88	HZ3 TRP A	6	-4.490	-11.759	-21.480	1.00	21.48		H

ATOM	89	HH2 TRP A	6	-6.636	-12.082	-20.686	1.00	22.23	H
ATOM	90	N LEU A	7	-3.777	-15.533	-24.959	1.00	14.52	N
ANISOU	90	N LEU A	7	1764	1840	1913	657	-176 37	N
ATOM	91	CA LEU A	7	-4.166	-16.863	-24.515	1.00	14.46	C
ANISOU	91	CA LEU A	7	1760	1862	1873	632	-138 88	C
ATOM	92	C LEU A	7	-5.326	-16.741	-23.537	1.00	15.50	C
ANISOU	92	C LEU A	7	1793	2108	1988	647	-145 94	C
ATOM	93	O LEU A	7	-5.233	-16.005	-22.546	1.00	15.67	O
ANISOU	93	O LEU A	7	1755	2210	1989	731	-151 55	O
ATOM	94	CB LEU A	7	-2.990	-17.577	-23.851	1.00	13.66	C
ANISOU	94	CB LEU A	7	1675	1761	1753	678	-88 108	C
ATOM	95	CG LEU A	7	-3.285	-18.915	-23.173	1.00	13.59	C
ANISOU	95	CG LEU A	7	1702	1763	1698	668	-50 174	C
ATOM	96	CD1 LEU A	7	-3.750	-19.940	-24.196	1.00	14.45	C
ANISOU	96	CD1 LEU A	7	1917	1765	1807	581	-49 214	C
ATOM	97	CD2 LEU A	7	-2.043	-19.394	-22.439	1.00	14.15	C
ANISOU	97	CD2 LEU A	7	1792	1841	1744	758	-29 180	C
ATOM	98	H LEU A	7	-3.336	-15.096	-24.364	1.00	17.43	H
ATOM	99	HA LEU A	7	-4.458	-17.388	-25.277	1.00	17.36	H
ATOM	100	HB2 LEU A	7	-2.316	-17.742	-24.528	1.00	16.39	H
ATOM	101	HB3 LEU A	7	-2.623	-16.988	-23.173	1.00	16.39	H
ATOM	102	HG LEU A	7	-3.994	-18.793	-22.523	1.00	16.31	H
ATOM	103	HD11 LEU A	7	-3.931	-20.778	-23.743	1.00	17.34	H
ATOM	104	HD12 LEU A	7	-4.557	-19.614	-24.624	1.00	17.34	H
ATOM	105	HD13 LEU A	7	-3.051	-20.064	-24.857	1.00	17.34	H
ATOM	106	HD21 LEU A	7	-2.238	-20.243	-22.012	1.00	16.98	H
ATOM	107	HD22 LEU A	7	-1.321	-19.503	-23.077	1.00	16.98	H
ATOM	108	HD23 LEU A	7	-1.798	-18.736	-21.770	1.00	16.98	H
ATOM	109	N ASN A	8	-6.412	-17.468	-23.807	1.00	15.66	N
ANISOU	109	N ASN A	8	1794	2139	2019	567	-145 140	N
ATOM	110	CA ASN A	8	-7.590	-17.432	-22.934	1.00	16.67	C
ANISOU	110	CA ASN A	8	1792	2400	2144	570	-118 166	C
ATOM	111	C ASN A	8	-8.241	-18.819	-22.960	1.00	18.33	C
ANISOU	111	C ASN A	8	2001	2590	2374	439	-82 259	C
ATOM	112	O ASN A	8	-9.161	-19.070	-23.741	1.00	20.24	O
ANISOU	112	O ASN A	8	2204	2809	2679	340	-141 267	O
ATOM	113	CB ASN A	8	-8.558	-16.349	-23.383	1.00	17.36	C
ANISOU	113	CB ASN A	8	1787	2540	2267	603	-189 108	C
ATOM	114	CG ASN A	8	-9.744	-16.199	-22.452	1.00	18.03	C
ANISOU	114	CG ASN A	8	1703	2797	2350	641	-140 128	C
ATOM	115	OD1 ASN A	8	-9.795	-16.801	-21.387	1.00	17.38	O
ANISOU	115	OD1 ASN A	8	1584	2798	2222	645	-37 191	O
ATOM	116	ND2 ASN A	8	-10.699	-15.370	-22.847	1.00	19.47	N
ANISOU	116	ND2 ASN A	8	1785	3040	2573	689	-207 79	N
ATOM	117	H ASN A	8	-6.493	-17.989	-24.487	1.00	18.80	H
ATOM	118	HA ASN A	8	-7.313	-17.239	-22.024	1.00	20.01	H
ATOM	119	HB2 ASN A	8	-8.090	-15.499	-23.411	1.00	20.83	H
ATOM	120	HB3 ASN A	8	-8.895	-16.572	-24.265	1.00	20.83	H
ATOM	121	HD21 ASN A	8	-11.394	-15.249	-22.356	1.00	23.37	H
ATOM	122	HD22 ASN A	8	-10.623	-14.952	-23.595	1.00	23.37	H
ATOM	123	N PHE A	9	-7.761	-19.710	-22.094	1.00	17.69	N
ANISOU	123	N PHE A	9	1974	2505	2243	438	-3 328	N
ATOM	124	CA PHE A	9	-8.212	-21.096	-22.072	1.00	18.09	C

ANISOU	124	CA	PHE A	9	2071	2490	2314	303	31	430	C
ATOM	125	C	PHE A	9	-8.803	-21.440	-20.716	1.00	19.00		C
ANISOU	125	C	PHE A	9	2103	2731	2384	298	148	529	C
ATOM	126	O	PHE A	9	-8.217	-21.120	-19.676	1.00	17.40		O
ANISOU	126	O	PHE A	9	1921	2605	2083	433	206	526	O
ATOM	127	CB	PHE A	9	-7.069	-22.060	-22.382	1.00	17.95		C
ANISOU	127	CB	PHE A	9	2249	2311	2261	310	23	446	C
ATOM	128	CG	PHE A	9	-7.376	-23.490	-22.013	1.00	18.91		C
ANISOU	128	CG	PHE A	9	2461	2345	2379	199	63	561	C
ATOM	129	CD1	PHE A	9	-8.064	-24.309	-22.890	1.00	20.12		C
ANISOU	129	CD1	PHE A	9	2669	2370	2607	35	-4	587	C
ATOM	130	CD2	PHE A	9	-6.990	-24.005	-20.790	1.00	20.13		C
ANISOU	130	CD2	PHE A	9	2668	2530	2452	257	150	644	C
ATOM	131	CE1	PHE A	9	-8.350	-25.625	-22.559	1.00	21.33		C
ANISOU	131	CE1	PHE A	9	2927	2407	2772	-91	20	699	C
ATOM	132	CE2	PHE A	9	-7.279	-25.318	-20.450	1.00	22.01		C
ANISOU	132	CE2	PHE A	9	3020	2660	2683	148	190	769	C
ATOM	133	CZ	PHE A	9	-7.957	-26.127	-21.340	1.00	22.81		C
ANISOU	133	CZ	PHE A	9	3173	2615	2879	-37	126	798	C
ATOM	134	H	PHE A	9	-7.164	-19.531	-21.502	1.00	21.23		H
ATOM	135	HA	PHE A	9	-8.902	-21.217	-22.743	1.00	21.71		H
ATOM	136	HB2	PHE A	9	-6.884	-22.031	-23.334	1.00	21.54		H
ATOM	137	HB3	PHE A	9	-6.283	-21.785	-21.885	1.00	21.54		H
ATOM	138	HD1	PHE A	9	-8.329	-23.976	-23.717	1.00	24.15		H
ATOM	139	HD2	PHE A	9	-6.530	-23.465	-20.188	1.00	24.16		H
ATOM	140	HE1	PHE A	9	-8.810	-26.166	-23.158	1.00	25.60		H
ATOM	141	HE2	PHE A	9	-7.010	-25.656	-19.626	1.00	26.41		H
ATOM	142	HZ	PHE A	9	-8.151	-27.008	-21.115	1.00	27.37		H
ATOM	143	N	ATHR A	10	-9.964	-22.090	-20.730	0.43	21.24		N
ANISOU	143	N	ATHR A	10	2294	3037	2738	141	181	618	N
ATOM	144	N	BTHR A	10	-9.964	-22.092	-20.732	0.57	21.26		N
ANISOU	144	N	BTHR A	10	2296	3040	2740	141	181	618	N
ATOM	145	CA	ATHR A	10	-10.566	-22.631	-19.522	0.43	23.27		C
ANISOU	145	CA	ATHR A	10	2485	3401	2955	100	328	751	C
ATOM	146	CA	BTHR A	10	-10.583	-22.621	-19.527	0.57	23.25		C
ANISOU	146	CA	BTHR A	10	2480	3400	2954	99	328	751	C
ATOM	147	C	ATHR A	10	-11.219	-23.960	-19.862	0.43	26.32		C
ANISOU	147	C	ATHR A	10	2898	3665	3438	-137	331	872	C
ATOM	148	C	BTHR A	10	-11.224	-23.959	-19.863	0.57	26.31		C
ANISOU	148	C	BTHR A	10	2896	3665	3437	-138	331	872	C
ATOM	149	O	ATHR A	10	-11.618	-24.196	-21.004	0.43	26.52		O
ANISOU	149	O	ATHR A	10	2913	3584	3579	-267	204	830	O
ATOM	150	O	BTHR A	10	-11.619	-24.201	-21.006	0.57	26.55		O
ANISOU	150	O	BTHR A	10	2917	3588	3583	-268	204	831	O
ATOM	151	CB	ATHR A	10	-11.609	-21.678	-18.913	0.43	23.53		C
ANISOU	151	CB	ATHR A	10	2280	3671	2989	165	409	745	C
ATOM	152	CB	BTHR A	10	-11.652	-21.675	-18.953	0.57	23.54		C
ANISOU	152	CB	BTHR A	10	2274	3672	2997	159	406	744	C
ATOM	153	OG1	ATHR A	10	-11.999	-22.153	-17.617	0.43	25.15		O
ANISOU	153	OG1	ATHR A	10	2451	3996	3109	166	591	883	O
ATOM	154	OG1	BTHR A	10	-12.843	-21.763	-19.742	0.57	24.56		O
ANISOU	154	OG1	BTHR A	10	2222	3829	3282	0	353	755	O
ATOM	155	CG2	ATHR A	10	-12.843	-21.574	-19.802	0.43	24.44		C

ANISOU	155	CG2ATHR A	10	2195	3824	3265	22	341	734	C
ATOM	156	CG2BTHR A	10	-11.157	-20.228	-18.935	0.57	21.91		C
ANISOU	156	CG2BTHR A	10	2055	3541	2730	373	345	593	C
ATOM	157	H ATHR A	10	-10.427	-22.231	-21.440	0.43	25.48		H
ATOM	158	H BTHR A	10	-10.418	-22.242	-21.447	0.57	25.51		H
ATOM	159	HA ATHR A	10	-9.874	-22.790	-18.861	0.43	27.92		H
ATOM	160	HA BTHR A	10	-9.904	-22.766	-18.850	0.57	27.90		H
ATOM	161	HB ATHR A	10	-11.222	-20.793	-18.826	0.43	28.24		H
ATOM	162	HB BTHR A	10	-11.854	-21.937	-18.041	0.57	28.24		H
ATOM	163	HG1ATHR A	10	-11.330	-22.188	-17.110	0.43	30.18		H
ATOM	164	HG1BTHR A	10	-13.431	-21.248	-19.434	0.57	29.47		H
ATOM	165	HG21ATHR A	10	-12.594	-21.236	-20.676	0.43	29.32		H
ATOM	166	HG21BTHR A	10	-10.946	-19.939	-19.837	0.57	26.29		H
ATOM	167	HG22ATHR A	10	-13.251	-22.448	-19.906	0.43	29.32		H
ATOM	168	HG22BTHR A	10	-11.844	-19.648	-18.571	0.57	26.29		H
ATOM	169	HG23ATHR A	10	-13.489	-20.970	-19.403	0.43	29.32		H
ATOM	170	HG23BTHR A	10	-10.361	-20.157	-18.386	0.57	26.29		H
ATOM	171	N ASP A	11	-11.322	-24.831	-18.861	1.00	30.94		N
ANISOU	171	N ASP A	11	3538	4250	3967	-195	464	1024	N
ATOM	172	CA ASP A	11	-12.019	-26.097	-19.048	1.00	39.87		C
ANISOU	172	CA ASP A	11	4693	5251	5202	-450	477	1162	C
ATOM	173	C ASP A	11	-13.524	-25.967	-18.844	1.00	47.09		C
ANISOU	173	C ASP A	11	5308	6340	6243	-614	561	1248	C
ATOM	174	O ASP A	11	-14.255	-26.927	-19.116	1.00	48.75		O
ANISOU	174	O ASP A	11	5485	6448	6589	-871	548	1357	O
ATOM	175	CB ASP A	11	-11.463	-27.157	-18.099	1.00	43.13		C
ANISOU	175	CB ASP A	11	5327	5557	5502	-454	584	1312	C
ATOM	176	CG ASP A	11	-11.641	-26.785	-16.648	1.00	45.64		C
ANISOU	176	CG ASP A	11	5575	6088	5678	-333	783	1410	C
ATOM	177	OD1 ASP A	11	-12.425	-25.858	-16.352	1.00	46.33		O
ANISOU	177	OD1 ASP A	11	5415	6410	5779	-287	863	1385	O
ATOM	178	OD2 ASP A	11	-10.989	-27.425	-15.798	1.00	47.31		O
ANISOU	178	OD2 ASP A	11	5998	6231	5746	-260	857	1509	O
ATOM	179	H AASP A	11	-11.001	-24.713	-18.073	0.43	37.13		H
ATOM	180	H BASP A	11	-10.998	-24.714	-18.074	0.57	37.13		H
ATOM	181	HA ASP A	11	-11.869	-26.404	-19.956	1.00	47.84		H
ATOM	182	HB2 ASP A	11	-11.927	-27.995	-18.254	1.00	51.75		H
ATOM	183	HB3 ASP A	11	-10.514	-27.267	-18.268	1.00	51.75		H
ATOM	184	N GLY A	12	-13.999	-24.821	-18.358	1.00	50.98		N
ANISOU	184	N GLY A	12	5580	7088	6701	-469	644	1201	N
ATOM	185	CA GLY A	12	-15.423	-24.540	-18.267	1.00	54.12		C
ANISOU	185	CA GLY A	12	5646	7689	7229	-578	718	1256	C
ATOM	186	C GLY A	12	-15.953	-24.328	-16.864	1.00	53.63		C
ANISOU	186	C GLY A	12	5440	7874	7064	-497	981	1384	C
ATOM	187	O GLY A	12	-17.147	-24.031	-16.718	1.00	58.23		O
ANISOU	187	O GLY A	12	5708	8666	7751	-558	1075	1432	O
ATOM	188	H GLY A	12	-13.502	-24.180	-18.071	1.00	61.17		H
ATOM	189	HA2 GLY A	12	-15.618	-23.741	-18.782	1.00	64.94		H
ATOM	190	HA3 GLY A	12	-15.914	-25.277	-18.663	1.00	64.94		H
ATOM	191	N GLY A	13	-15.139	-24.450	-15.817	1.00	47.45		N
ANISOU	191	N GLY A	13	4866	7091	6070	-343	1105	1439	N
ATOM	192	CA GLY A	13	-15.641	-24.383	-14.455	1.00	45.95		C
ANISOU	192	CA GLY A	13	4590	7124	5745	-262	1370	1580	C

ATOM	193	C	GLY A 13	-15.658	-22.972	-13.898	1.00	43.45	C
ANISOU	193	C	GLY A 13	4176	7045	5288	50	1417 1443	C
ATOM	194	O	GLY A 13	-14.679	-22.232	-14.021	1.00	40.59	O
ANISOU	194	O	GLY A 13	3976	6620	4826	255	1276 1275	O
ATOM	195	H	GLY A 13	-14.290	-24.572	-15.873	1.00	56.94	H
ATOM	196	HA2	GLY A 13	-16.545	-24.733	-14.429	1.00	55.14	H
ATOM	197	HA3	GLY A 13	-15.084	-24.932	-13.881	1.00	55.14	H
ATOM	198	N	GLY A 14	-16.782	-22.604	-13.290	1.00	45.73	N
ANISOU	198	N	GLY A 14	4220	7575	5581	81	1591 1494	N
ATOM	199	CA	GLY A 14	-16.855	-21.360	-12.539	1.00	45.59	C
ANISOU	199	CA	GLY A 14	4197	7725	5401	393	1619 1346	C
ATOM	200	C	GLY A 14	-16.660	-20.130	-13.401	1.00	42.15	C
ANISOU	200	C	GLY A 14	3690	7304	5023	550	1421 1130	C
ATOM	201	O	GLY A 14	-17.084	-20.069	-14.561	1.00	42.48	O
ANISOU	201	O	GLY A 14	3557	7315	5270	418	1292 1089	O
ATOM	202	H	GLY A 14	-17.513	-23.056	-13.298	1.00	54.88	H
ATOM	203	HA2	GLY A 14	-17.722	-21.297	-12.109	1.00	54.71	H
ATOM	204	HA3	GLY A 14	-16.172	-21.361	-11.851	1.00	54.71	H
ATOM	205	N	ILE A 15	-16.001	-19.130	-12.822	1.00	38.94	N
ANISOU	205	N	ILE A 15	3447	6917	4433	831	1368 984	N
ATOM	206	CA	ILE A 15	-15.845	-17.812	-13.429	1.00	35.71	C
ANISOU	206	CA	ILE A 15	3026	6490	4052	999	1177 769	C
ATOM	207	C	ILE A 15	-14.374	-17.603	-13.760	1.00	32.11	C
ANISOU	207	C	ILE A 15	2795	5875	3529	1084	1026 673	C
ATOM	208	O	ILE A 15	-13.509	-17.700	-12.880	1.00	30.33	O
ANISOU	208	O	ILE A 15	2780	5621	3122	1204	1054 675	O
ATOM	209	CB	ILE A 15	-16.349	-16.701	-12.496	1.00	37.10	C
ANISOU	209	CB	ILE A 15	3219	6785	4094	1236	1208 665	C
ATOM	210	CG1	ILE A 15	-17.817	-16.933	-12.130	1.00	41.04	C
ANISOU	210	CG1	ILE A 15	3472	7459	4663	1167	1383 761	C
ATOM	211	CG2	ILE A 15	-16.162	-15.327	-13.149	1.00	35.08	C
ANISOU	211	CG2	ILE A 15	3004	6453	3870	1379	992 455	C
ATOM	212	CD1	ILE A 15	-18.301	-16.074	-10.971	1.00	44.03	C
ANISOU	212	CD1	ILE A 15	3884	7976	4869	1410	1475 705	C
ATOM	213	H	ILE A 15	-15.624	-19.194	-12.052	1.00	46.73	H
ATOM	214	HA	ILE A 15	-16.354	-17.774	-14.253	1.00	42.85	H
ATOM	215	HB	ILE A 15	-15.823	-16.725	-11.681	1.00	44.52	H
ATOM	216	HG12	ILE A 15	-18.368	-16.729	-12.901	1.00	49.25	H
ATOM	217	HG13	ILE A 15	-17.934	-17.863	-11.879	1.00	49.25	H
ATOM	218	HG21	ILE A 15	-16.487	-14.643	-12.542	1.00	42.09	H
ATOM	219	HG22	ILE A 15	-15.220	-15.189	-13.330	1.00	42.09	H
ATOM	220	HG23	ILE A 15	-16.666	-15.301	-13.978	1.00	42.09	H
ATOM	221	HD11	ILE A 15	-19.234	-16.275	-10.797	1.00	52.84	H
ATOM	222	HD12	ILE A 15	-17.767	-16.273	-10.186	1.00	52.84	H
ATOM	223	HD13	ILE A 15	-18.203	-15.139	-11.210	1.00	52.84	H
ATOM	224	N	VAL A 16	-14.093	-17.303	-15.026	1.00	31.67	N
ANISOU	224	N	VAL A 16	2733	5673	3626	1006	830 573	N
ATOM	225	CA	VAL A 16	-12.769	-16.864	-15.461	1.00	29.57	C
ANISOU	225	CA	VAL A 16	2688	5210	3335	1063	644 446	C
ATOM	226	C	VAL A 16	-13.006	-15.652	-16.358	1.00	28.83	C
ANISOU	226	C	VAL A 16	2527	5093	3333	1143	487 293	C
ATOM	227	O	VAL A 16	-13.094	-15.773	-17.585	1.00	28.75	O
ANISOU	227	O	VAL A 16	2489	4966	3468	1003	368 277	O

ATOM	228	CB	VAL A 16	-11.985	-17.956	-16.196	1.00	28.76	C	
ANISOU	228	CB	VAL A 16	2719	4895	3313	857	572	510	C
ATOM	229	CG1	VAL A 16	-10.630	-17.421	-16.640	1.00	26.82	C	
ANISOU	229	CG1	VAL A 16	2653	4485	3054	929	409	383	C
ATOM	230	CG2	VAL A 16	-11.799	-19.187	-15.302	1.00	29.63	C	
ANISOU	230	CG2	VAL A 16	2923	5005	3330	787	718	672	C
ATOM	231	H	VAL A 16	-14.666	-17.347	-15.666	1.00	38.00	H	
ATOM	232	HA	VAL A 16	-12.252	-16.580	-14.691	1.00	35.48	H	
ATOM	233	HB	VAL A 16	-12.479	-18.226	-16.986	1.00	34.51	H	
ATOM	234	HG11	VAL A 16	-10.149	-18.125	-17.102	1.00	32.19	H	
ATOM	235	HG12	VAL A 16	-10.769	-16.668	-17.236	1.00	32.19	H	
ATOM	236	HG13	VAL A 16	-10.131	-17.137	-15.858	1.00	32.19	H	
ATOM	237	HG21	VAL A 16	-11.301	-19.859	-15.792	1.00	35.55	H	
ATOM	238	HG22	VAL A 16	-11.310	-18.927	-14.506	1.00	35.55	H	
ATOM	239	HG23	VAL A 16	-12.671	-19.533	-15.057	1.00	35.55	H	
ATOM	240	N	ASN A 17	-13.118	-14.473	-15.751	1.00	28.46	N	
ANISOU	240	N	ASN A 17	2546	5079	3190	1318	450	176	N
ATOM	241	CA	ASN A 17	-13.309	-13.247	-16.519	1.00	28.22	C	
ANISOU	241	CA	ASN A 17	2545	4950	3228	1357	287	37	C
ATOM	242	C	ASN A 17	-11.930	-12.702	-16.861	1.00	25.76	C	
ANISOU	242	C	ASN A 17	2446	4440	2902	1364	136	-58	C
ATOM	243	O	ASN A 17	-11.312	-11.971	-16.088	1.00	26.64	O	
ANISOU	243	O	ASN A 17	2703	4519	2901	1473	90	-140	O
ATOM	244	CB	ASN A 17	-14.147	-12.229	-15.760	1.00	31.47	C	
ANISOU	244	CB	ASN A 17	2938	5465	3553	1515	314	-30	C
ATOM	245	CG	ASN A 17	-14.605	-11.094	-16.654	1.00	33.31	C	
ANISOU	245	CG	ASN A 17	3172	5612	3871	1545	171	-138	C
ATOM	246	OD1	ASN A 17	-14.330	-11.089	-17.858	1.00	32.17	O	
ANISOU	246	OD1	ASN A 17	3046	5332	3846	1440	56	-154	O
ATOM	247	ND2	ASN A 17	-15.317	-10.137	-16.082	1.00	36.29	N	
ANISOU	247	ND2	ASN A 17	3545	6070	4175	1703	179	-205	N
ATOM	248	H	ASN A 17	-13.088	-14.357	-14.899	1.00	34.16	H	
ATOM	249	HA	ASN A 17	-13.766	-13.458	-17.348	1.00	33.86	H	
ATOM	250	HB2	ASN A 17	-14.934	-12.668	-15.401	1.00	37.76	H	
ATOM	251	HB3	ASN A 17	-13.617	-11.852	-15.040	1.00	37.76	H	
ATOM	252	HD21	ASN A 17	-15.599	-9.473	-16.550	1.00	43.55	H	
ATOM	253	HD22	ASN A 17	-15.498	-10.179	-15.242	1.00	43.55	H	
ATOM	254	N	ALA A 18	-11.442	-13.086	-18.037	1.00	22.34	N	
ANISOU	254	N	ALA A 18	2023	3879	2586	1240	56	-43	N
ATOM	255	CA	ALA A 18	-10.158	-12.630	-18.547	1.00	20.37	C	
ANISOU	255	CA	ALA A 18	1944	3439	2356	1209	-66	-112	C
ATOM	256	C	ALA A 18	-10.363	-11.406	-19.426	1.00	19.90	C	
ANISOU	256	C	ALA A 18	1937	3269	2357	1209	-186	-199	C
ATOM	257	O	ALA A 18	-11.251	-11.396	-20.283	1.00	21.33	O	
ANISOU	257	O	ALA A 18	2028	3463	2614	1176	-213	-183	O
ATOM	258	CB	ALA A 18	-9.479	-13.743	-19.345	1.00	19.75	C	
ANISOU	258	CB	ALA A 18	1868	3287	2347	1097	-70	-35	C
ATOM	259	H	ALA A 18	-11.850	-13.624	-18.570	1.00	26.81	H	
ATOM	260	HA	ALA A 18	-9.582	-12.386	-17.805	1.00	24.44	H	
ATOM	261	HB1	ALA A 18	-8.627	-13.419	-19.675	1.00	23.69	H	
ATOM	262	HB2	ALA A 18	-9.341	-14.508	-18.766	1.00	23.69	H	
ATOM	263	HB3	ALA A 18	-10.050	-13.990	-20.090	1.00	23.69	H	
ATOM	264	N	VAL A 19	-9.539	-10.384	-19.224	1.00	18.24	N	

ANISOU 264 N VAL A 19	1869 2949 2113 1248 -268 -287	N
ATOM 265 CA VAL A 19	-9.674 -9.122 -19.943 1.00 18.23	C
ANISOU 265 CA VAL A 19	1941 2837 2147 1268 -374 -361	C
ATOM 266 C VAL A 19	-8.457 -8.944 -20.837 1.00 17.12	C
ANISOU 266 C VAL A 19	1904 2523 2079 1171 -447 -362	C
ATOM 267 O VAL A 19	-7.330 -8.797 -20.352 1.00 16.02	O
ANISOU 267 O VAL A 19	1831 2326 1930 1162 -473 -392	O
ATOM 268 CB VAL A 19	-9.836 -7.932 -18.987 1.00 19.27	C
ANISOU 268 CB VAL A 19	2150 2990 2183 1410 -420 -465	C
ATOM 269 CG1 VAL A 19	-10.032 -6.644 -19.785 1.00 19.31	C
ANISOU 269 CG1 VAL A 19	2244 2868 2223 1440 -537 -534	C
ATOM 270 CG2 VAL A 19	-11.018 -8.167 -18.054 1.00 20.44	C
ANISOU 270 CG2 VAL A 19	2188 3335 2243 1526 -321 -451	C
ATOM 271 H VAL A 19	-8.884 -10.397 -18.668 1.00 21.89	H
ATOM 272 HA VAL A 19	-10.461 -9.162 -20.509 1.00 21.87	H
ATOM 273 HB VAL A 19	-9.034 -7.840 -18.448 1.00 23.13	H
ATOM 274 HG11 VAL A 19	-10.132 -5.903 -19.168 1.00 23.17	H
ATOM 275 HG12 VAL A 19	-9.256 -6.502 -20.350 1.00 23.17	H
ATOM 276 HG13 VAL A 19	-10.828 -6.730 -20.332 1.00 23.17	H
ATOM 277 HG21 VAL A 19	-11.105 -7.407 -17.457 1.00 24.53	H
ATOM 278 HG22 VAL A 19	-11.823 -8.266 -18.584 1.00 24.53	H
ATOM 279 HG23 VAL A 19	-10.858 -8.974 -17.540 1.00 24.53	H
ATOM 280 N ASN A 20	-8.690 -8.938 -22.147 1.00 16.65	N
ANISOU 280 N ASN A 20	1853 2386 2089 1112 -486 -329	N
ATOM 281 CA ASN A 20	-7.655 -8.595 -23.120 1.00 17.51	C
ANISOU 281 CA ASN A 20	2069 2330 2254 1046 -546 -322	C
ATOM 282 C ASN A 20	-7.503 -7.076 -23.117 1.00 18.65	C
ANISOU 282 C ASN A 20	2327 2363 2395 1105 -646 -401	C
ATOM 283 O ASN A 20	-8.300 -6.358 -23.728 1.00 19.34	O
ANISOU 283 O ASN A 20	2459 2414 2476 1151 -704 -421	O
ATOM 284 CB ASN A 20	-8.034 -9.122 -24.499 1.00 16.65	C
ANISOU 284 CB ASN A 20	1966 2178 2183 994 -563 -262	C
ATOM 285 CG ASN A 20	-7.002 -8.802 -25.564 1.00 15.15	C
ANISOU 285 CG ASN A 20	1909 1815 2031 945 -604 -236	C
ATOM 286 OD1 ASN A 20	-6.144 -7.936 -25.396 1.00 14.89	O
ANISOU 286 OD1 ASN A 20	1951 1679 2026 946 -637 -264	O
ATOM 287 ND2 ASN A 20	-7.094 -9.505 -26.679 1.00 15.36	N
ANISOU 287 ND2 ASN A 20	1977 1800 2058 897 -602 -176	N
ATOM 288 H ASN A 20	-9.449 -9.132 -22.502 1.00 19.98	H
ATOM 289 HA ASN A 20	-6.811 -8.993 -22.856 1.00 21.01	H
ATOM 290 HB2 ASN A 20	-8.126 -10.087 -24.453 1.00 19.98	H
ATOM 291 HB3 ASN A 20	-8.875 -8.722 -24.769 1.00 19.98	H
ATOM 292 HD21 ASN A 20	-6.537 -9.370 -27.320 1.00 18.43	H
ATOM 293 HD22 ASN A 20	-7.711 -10.098 -26.764 1.00 18.43	H
ATOM 294 N GLY A 21	-6.481 -6.584 -22.416 1.00 18.63	N
ANISOU 294 N GLY A 21	2377 2298 2401 1110 -687 -452	N
ATOM 295 CA GLY A 21	-6.246 -5.162 -22.277 1.00 20.36	C
ANISOU 295 CA GLY A 21	2718 2388 2630 1164 -811 -537	C
ATOM 296 C GLY A 21	-5.434 -4.606 -23.433 1.00 22.19	C
ANISOU 296 C GLY A 21	3056 2412 2965 1084 -876 -496	C
ATOM 297 O GLY A 21	-5.188 -5.271 -24.441 1.00 19.14	O
ANISOU 297 O GLY A 21	2660 1992 2620 1008 -818 -404	O
ATOM 298 H GLY A 21	-5.903 -7.071 -22.006 1.00 22.35	H

ATOM	299	HA2 GLY A 21	-7.096	-4.694	-22.244	1.00	24.43	H
ATOM	300	HA3 GLY A 21	-5.766	-4.991	-21.452	1.00	24.43	H
ATOM	301	N ASER A 22	-5.010	-3.356	-23.269	0.52	23.49	N
ANISOU	301	N ASER A 22	3344	2416	3167	1101	-1000 -559	N
ATOM	302	N BSER A 22	-5.006	-3.358	-23.271	0.28	23.58	N
ANISOU	302	N BSER A 22	3354	2426	3178	1101	-1000 -559	N
ATOM	303	N CSER A 22	-5.003	-3.359	-23.265	0.20	23.60	N
ANISOU	303	N CSER A 22	3357	2430	3181	1101	-1000 -559	N
ATOM	304	CA ASER A 22	-4.229	-2.688	-24.301	0.52	23.36	C
ANISOU	304	CA ASER A 22	3455	2162	3259	1002	-1052 -501	C
ATOM	305	CA BSER A 22	-4.245	-2.692	-24.319	0.28	23.37	C
ANISOU	305	CA BSER A 22	3456	2163	3258	1002	-1051 -499	C
ATOM	306	CA CSER A 22	-4.231	-2.681	-24.297	0.20	23.39	C
ANISOU	306	CA CSER A 22	3459	2165	3262	1002	-1053 -501	C
ATOM	307	C ASER A 22	-2.814	-3.250	-24.357	0.52	22.91	C
ANISOU	307	C ASER A 22	3331	2051	3323	856	-1001 -447	C
ATOM	308	C BSER A 22	-2.812	-3.212	-24.361	0.28	22.97	C
ANISOU	308	C BSER A 22	3343	2053	3333	856	-1004 -448	C
ATOM	309	C CSER A 22	-2.808	-3.225	-24.355	0.20	24.96	C
ANISOU	309	C CSER A 22	3593	2307	3585	856	-1004 -448	C
ATOM	310	O ASER A 22	-2.190	-3.517	-23.327	0.52	24.39	O
ANISOU	310	O ASER A 22	3424	2307	3535	853	-1025 -508	O
ATOM	311	O BSER A 22	-2.174	-3.412	-23.324	0.28	24.40	O
ANISOU	311	O BSER A 22	3436	2293	3541	853	-1036 -513	O
ATOM	312	O CSER A 22	-2.170	-3.454	-23.324	0.20	24.32	O
ANISOU	312	O CSER A 22	3421	2288	3530	852	-1032 -511	O
ATOM	313	CB ASER A 22	-4.181	-1.182	-24.037	0.52	24.88	C
ANISOU	313	CB ASER A 22	3803	2186	3464	1026	-1199 -573	C
ATOM	314	CB BSER A 22	-4.244	-1.177	-24.097	0.28	24.87	C
ANISOU	314	CB BSER A 22	3804	2186	3458	1029	-1196 -570	C
ATOM	315	CB CSER A 22	-4.207	-1.175	-24.028	0.20	24.88	C
ANISOU	315	CB CSER A 22	3804	2189	3462	1030	-1200 -575	C
ATOM	316	OG ASER A 22	-5.483	-0.629	-24.055	0.52	26.61	O
ANISOU	316	OG ASER A 22	4071	2478	3563	1156	-1231 -617	O
ATOM	317	OG BSER A 22	-3.546	-0.833	-22.914	0.28	26.81	O
ANISOU	317	OG BSER A 22	4042	2402	3744	1041	-1295 -672	O
ATOM	318	OG CSER A 22	-3.444	-0.488	-25.003	0.20	27.03	O
ANISOU	318	OG CSER A 22	4213	2216	3840	890	-1225 -493	O
ATOM	319	H ASER A 22	-5.162	-2.875	-22.572	0.52	28.19	H
ATOM	320	H BSER A 22	-5.142	-2.879	-22.570	0.28	28.29	H
ATOM	321	H CSER A 22	-5.144	-2.885	-22.561	0.20	28.32	H
ATOM	322	HA ASER A 22	-4.648	-2.833	-25.163	0.52	28.03	H
ATOM	323	HA BSER A 22	-4.658	-2.872	-25.177	0.28	28.04	H
ATOM	324	HA CSER A 22	-4.649	-2.829	-25.160	0.20	28.07	H
ATOM	325	HB2ASER A 22	-3.782	-1.026	-23.167	0.52	29.85	H
ATOM	326	HB2BSER A 22	-3.813	-0.749	-24.852	0.28	29.84	H
ATOM	327	HB2CSER A 22	-5.117	-0.838	-24.046	0.20	29.86	H
ATOM	328	HB3ASER A 22	-3.648	-0.758	-24.728	0.52	29.85	H
ATOM	329	HB3BSER A 22	-5.161	-0.870	-24.022	0.28	29.84	H
ATOM	330	HB3CSER A 22	-3.815	-1.018	-23.154	0.20	29.86	H
ATOM	331	HG ASER A 22	-5.840	-0.758	-24.804	0.52	31.94	H
ATOM	332	HG BSER A 22	-3.910	-1.196	-22.250	0.28	32.18	H
ATOM	333	HG CSER A 22	-3.443	0.336	-24.838	0.20	32.43	H

ATOM	334	N	GLY A 23	-2.310	-3.429	-25.572	1.00	23.03	N	
ANISOU	334	N	GLY A 23	3380	1990	3382	710	-902	-322	N
ATOM	335	CA	GLY A 23	-0.937	-3.881	-25.739	1.00	21.39	C	
ANISOU	335	CA	GLY A 23	3072	1780	3275	535	-803	-252	C
ATOM	336	C	GLY A 23	-0.683	-5.210	-25.056	1.00	19.28	C	
ANISOU	336	C	GLY A 23	2629	1716	2980	564	-726	-266	C
ATOM	337	O	GLY A 23	-1.414	-6.189	-25.247	1.00	17.67	O	
ANISOU	337	O	GLY A 23	2394	1640	2680	633	-651	-240	O
ATOM	338	H	GLY A 23	-2.744	-3.311	-26.305	1.00	27.64	H	
ATOM	339	HA2	GLY A 23	-0.740	-3.978	-26.684	1.00	25.67	H	
ATOM	340	HA3	GLY A 23	-0.331	-3.222	-25.365	1.00	25.67	H	
ATOM	341	N	GLY A 24	0.371	-5.254	-24.249	1.00	19.61	N	
ANISOU	341	N	GLY A 24	2561	1779	3112	508	-760	-306	N
ATOM	342	CA	GLY A 24	0.723	-6.450	-23.513	1.00	18.93	C	
ANISOU	342	CA	GLY A 24	2331	1866	2995	552	-710	-319	C
ATOM	343	C	GLY A 24	0.052	-6.577	-22.165	1.00	19.75	C	
ANISOU	343	C	GLY A 24	2431	2076	2999	715	-805	-429	C
ATOM	344	O	GLY A 24	0.434	-7.445	-21.371	1.00	19.44	O	
ANISOU	344	O	GLY A 24	2300	2160	2926	760	-789	-444	O
ATOM	345	H	GLY A 24	0.903	-4.592	-24.112	1.00	23.54	H	
ATOM	346	HA2	GLY A 24	0.484	-7.227	-24.042	1.00	22.71	H	
ATOM	347	HA3	GLY A 24	1.683	-6.464	-23.373	1.00	22.71	H	
ATOM	348	N	ASN A 25	-0.937	-5.738	-21.877	1.00	20.20	N	
ANISOU	348	N	ASN A 25	2595	2090	2991	825	-897	-502	N
ATOM	349	CA	ASN A 25	-1.596	-5.741	-20.579	1.00	19.87	C	
ANISOU	349	CA	ASN A 25	2560	2157	2833	1005	-967	-608	C
ATOM	350	C	ASN A 25	-2.820	-6.650	-20.588	1.00	18.16	C	
ANISOU	350	C	ASN A 25	2309	2118	2474	1046	-815	-547	C
ATOM	351	O	ASN A 25	-3.539	-6.750	-21.588	1.00	15.96	O	
ANISOU	351	O	ASN A 25	2042	1826	2195	1019	-757	-483	O
ATOM	352	CB	ASN A 25	-2.014	-4.325	-20.180	1.00	22.90	C	
ANISOU	352	CB	ASN A 25	3081	2422	3196	1088	-1119	-722	C
ATOM	353	CG	ASN A 25	-2.788	-4.299	-18.883	1.00	24.69	C	
ANISOU	353	CG	ASN A 25	3337	2806	3239	1227	-1121	-811	C
ATOM	354	OD1	ASN A 25	-4.006	-4.136	-18.882	1.00	26.64	O	
ANISOU	354	OD1	ASN A 25	3610	3139	3373	1301	-1058	-809	O
ATOM	355	ND2	ASN A 25	-2.089	-4.483	-17.770	1.00	24.53	N	
ANISOU	355	ND2	ASN A 25	3307	2827	3187	1275	-1194	-888	N
ATOM	356	H	ASN A 25	-1.248	-5.151	-22.424	1.00	24.24	H	
ATOM	357	HA	ASN A 25	-0.978	-6.074	-19.910	1.00	23.84	H	
ATOM	358	HB2	ASN A 25	-1.219	-3.780	-20.067	1.00	27.47	H	
ATOM	359	HB3	ASN A 25	-2.578	-3.952	-20.875	1.00	27.47	H	
ATOM	360	HD21	ASN A 25	-2.485	-4.476	-17.007	1.00	29.44	H	
ATOM	361	HD22	ASN A 25	-1.239	-4.609	-17.812	1.00	29.44	H	
ATOM	362	N	TYR A 26	-3.044	-7.329	-19.468	1.00	17.47	N	
ANISOU	362	N	TYR A 26	2183	2182	2273	1104	-762	-563	N
ATOM	363	CA	TYR A 26	-4.258	-8.109	-19.298	1.00	17.37	C	
ANISOU	363	CA	TYR A 26	2129	2317	2154	1137	-635	-505	C
ATOM	364	C	TYR A 26	-4.569	-8.187	-17.815	1.00	17.95	C	
ANISOU	364	C	TYR A 26	2219	2513	2087	1258	-629	-562	C
ATOM	365	O	TYR A 26	-3.736	-7.864	-16.969	1.00	19.45	O	
ANISOU	365	O	TYR A 26	2460	2680	2250	1309	-723	-643	O
ATOM	366	CB	TYR A 26	-4.129	-9.516	-19.903	1.00	16.14	C	

ANISOU 366 CB TYR A 26	1896 2206 2029 1049 -521 -387	C
ATOM 367 CG TYR A 26	-3.230 -10.468 -19.130 1.00 16.74	C
ANISOU 367 CG TYR A 26	1944 2336 2078 1047 -491 -364	C
ATOM 368 CD1 TYR A 26	-3.753 -11.333 -18.179 1.00 17.09	C
ANISOU 368 CD1 TYR A 26	1975 2509 2009 1110 -416 -331	C
ATOM 369 CD2 TYR A 26	-1.862 -10.503 -19.360 1.00 16.46	C
ANISOU 369 CD2 TYR A 26	1892 2227 2136 997 -541 -370	C
ATOM 370 CE1 TYR A 26	-2.940 -12.205 -17.483 1.00 17.09	C
ANISOU 370 CE1 TYR A 26	1979 2547 1969 1129 -403 -305	C
ATOM 371 CE2 TYR A 26	-1.038 -11.379 -18.674 1.00 16.57	C
ANISOU 371 CE2 TYR A 26	1879 2293 2124 1009 -527 -351	C
ATOM 372 CZ TYR A 26	-1.582 -12.224 -17.735 1.00 16.34	C
ANISOU 372 CZ TYR A 26	1871 2373 1963 1078 -465 -320	C
ATOM 373 OH TYR A 26	-0.762 -13.075 -17.049 1.00 17.13	O
ANISOU 373 OH TYR A 26	1974 2511 2025 1110 -467 -300	O
ATOM 374 H TYR A 26	-2.510 -7.352 -18.795 1.00 20.96	H
ATOM 375 HA TYR A 26	-4.993 -7.656 -19.739 1.00 20.84	H
ATOM 376 HB2 TYR A 26	-5.012 -9.916 -19.944 1.00 19.36	H
ATOM 377 HB3 TYR A 26	-3.767 -9.435 -20.799 1.00 19.36	H
ATOM 378 HD1 TYR A 26	-4.667 -11.326 -18.009 1.00 20.51	H
ATOM 379 HD2 TYR A 26	-1.493 -9.936 -19.998 1.00 19.75	H
ATOM 380 HE1 TYR A 26	-3.305 -12.778 -16.848 1.00 20.51	H
ATOM 381 HE2 TYR A 26	-0.123 -11.388 -18.838 1.00 19.88	H
ATOM 382 HH TYR A 26	0.032 -12.978 -17.306 1.00 20.56	H
ATOM 383 N SER A 27	-5.788 -8.626 -17.513 1.00 17.29	N
ANISOU 383 N SER A 27	2091 2566 1915 1316 -527 -520	N
ATOM 384 CA SER A 27	-6.208 -8.845 -16.140 1.00 18.67	C
ANISOU 384 CA SER A 27	2278 2885 1930 1455 -485 -544	C
ATOM 385 C SER A 27	-7.158 -10.033 -16.094 1.00 19.37	C
ANISOU 385 C SER A 27	2256 3119 1983 1449 -326 -422	C
ATOM 386 O SER A 27	-7.728 -10.439 -17.110 1.00 17.65	O
ANISOU 386 O SER A 27	1953 2890 1864 1355 -277 -352	O
ATOM 387 CB SER A 27	-6.873 -7.593 -15.554 1.00 20.02	C
ANISOU 387 CB SER A 27	2524 3078 2007 1602 -557 -654	C
ATOM 388 OG SER A 27	-7.945 -7.147 -16.366 1.00 21.58	O
ANISOU 388 OG SER A 27	2671 3274 2254 1592 -531 -636	O
ATOM 389 H SER A 27	-6.395 -8.806 -18.095 1.00 20.75	H
ATOM 390 HA SER A 27	-5.432 -9.057 -15.599 1.00 22.40	H
ATOM 391 HB2 SER A 27	-7.215 -7.804 -14.671 1.00 24.03	H
ATOM 392 HB3 SER A 27	-6.212 -6.887 -15.491 1.00 24.03	H
ATOM 393 HG SER A 27	-8.295 -6.462 -16.028 1.00 25.90	H
ATOM 394 N VAL A 28	-7.309 -10.594 -14.895 1.00 20.93	N
ANISOU 394 N VAL A 28	2461 3455 2036 1561 -254 -396	N
ATOM 395 CA VAL A 28	-8.117 -11.795 -14.687 1.00 21.29	C
ANISOU 395 CA VAL A 28	2399 3646 2045 1563 -87 -261	C
ATOM 396 C VAL A 28	-8.779 -11.703 -13.320 1.00 23.30	C
ANISOU 396 C VAL A 28	2672 4073 2110 1742 -3 -255	C
ATOM 397 O VAL A 28	-8.106 -11.460 -12.315 1.00 23.03	O
ANISOU 397 O VAL A 28	2767 4048 1935 1867 -64 -314	O
ATOM 398 CB VAL A 28	-7.287 -13.095 -14.761 1.00 21.98	C
ANISOU 398 CB VAL A 28	2491 3709 2153 1495 -45 -167	C
ATOM 399 CG1 VAL A 28	-8.204 -14.284 -15.036 1.00 22.79	C
ANISOU 399 CG1 VAL A 28	2457 3917 2283 1444 120 -16	C

ATOM	400	CG2 VAL A 28	-6.177	-13.001	-15.793	1.00	21.25		C
ANISOU	400	CG2 VAL A 28	2433	3435	2204	1360	-157	-201	C
ATOM	401	H VAL A 28	-6.948	-10.293	-14.175	1.00	25.12		H
ATOM	402	HA VAL A 28	-8.813	-11.836	-15.363	1.00	25.55		H
ATOM	403	HB VAL A 28	-6.870	-13.243	-13.897	1.00	26.38		H
ATOM	404	HG11 VAL A 28	-7.669	-15.092	-15.080	1.00	27.34		H
ATOM	405	HG12 VAL A 28	-8.853	-14.354	-14.319	1.00	27.34		H
ATOM	406	HG13 VAL A 28	-8.659	-14.142	-15.882	1.00	27.34		H
ATOM	407	HG21 VAL A 28	-5.684	-13.837	-15.804	1.00	25.49		H
ATOM	408	HG22 VAL A 28	-6.570	-12.837	-16.665	1.00	25.49		H
ATOM	409	HG23 VAL A 28	-5.585	-12.271	-15.554	1.00	25.49		H
ATOM	410	N ASN A 29	-10.094	-11.904	-13.293	1.00	25.09		N
ANISOU	410	N ASN A 29	2764	4436	2334	1756	133	-181	N
ATOM	411	CA ASN A 29	-10.872	-12.122	-12.079	1.00	28.41		C
ANISOU	411	CA ASN A 29	3161	5043	2592	1894	280	-118	C
ATOM	412	C ASN A 29	-11.451	-13.525	-12.174	1.00	28.70		C
ANISOU	412	C ASN A 29	3051	5184	2670	1780	480	64	C
ATOM	413	O ASN A 29	-12.217	-13.813	-13.099	1.00	29.62		O
ANISOU	413	O ASN A 29	2995	5317	2944	1646	523	115	O
ATOM	414	CB ASN A 29	-12.003	-11.095	-11.958	1.00	30.39		C
ANISOU	414	CB ASN A 29	3350	5373	2826	1993	285	-180	C
ATOM	415	CG ASN A 29	-11.810	-10.117	-10.809	1.00	31.94		C
ANISOU	415	CG ASN A 29	3708	5597	2830	2211	210	-284	C
ATOM	416	OD1 ASN A 29	-10.690	-9.787	-10.429	1.00	32.18		O
ANISOU	416	OD1 ASN A 29	3910	5527	2790	2264	66	-369	O
ATOM	417	ND2 ASN A 29	-12.919	-9.631	-10.262	1.00	33.34		N
ANISOU	417	ND2 ASN A 29	3824	5913	2931	2345	296	-285	N
ATOM	418	H ASN A 29	-10.579	-11.918	-14.003	1.00	30.11		H
ATOM	419	HA ASN A 29	-10.300	-12.064	-11.297	1.00	34.10		H
ATOM	420	HB2 ASN A 29	-12.051	-10.582	-12.780	1.00	36.47		H
ATOM	421	HB3 ASN A 29	-12.839	-11.564	-11.812	1.00	36.47		H
ATOM	422	HD21 ASN A 29	-12.868	-9.074	-9.609	1.00	40.01		H
ATOM	423	HD22 ASN A 29	-13.688	-9.873	-10.562	1.00	40.01		H
ATOM	424	N TRP A 30	-11.076	-14.405	-11.251	1.00	28.14		N
ANISOU	424	N TRP A 30	3060	5170	2462	1822	590	165	N
ATOM	425	CA TRP A 30	-11.513	-15.791	-11.338	1.00	27.64		C
ANISOU	425	CA TRP A 30	2895	5173	2434	1676	785	358	C
ATOM	426	C TRP A 30	-12.004	-16.276	-9.983	1.00	31.09		C
ANISOU	426	C TRP A 30	3379	5741	2693	1753	966	481	C
ATOM	427	O TRP A 30	-11.631	-15.751	-8.930	1.00	31.64		O
ANISOU	427	O TRP A 30	3607	5830	2585	1946	921	415	O
ATOM	428	CB TRP A 30	-10.400	-16.701	-11.893	1.00	25.44		C
ANISOU	428	CB TRP A 30	2709	4755	2201	1570	738	404	C
ATOM	429	CG TRP A 30	-9.289	-17.069	-10.953	1.00	25.21		C
ANISOU	429	CG TRP A 30	2908	4675	1996	1680	700	408	C
ATOM	430	CD1 TRP A 30	-9.216	-18.186	-10.163	1.00	26.67		C
ANISOU	430	CD1 TRP A 30	3202	4882	2048	1660	834	572	C
ATOM	431	CD2 TRP A 30	-8.069	-16.350	-10.741	1.00	24.24		C
ANISOU	431	CD2 TRP A 30	2931	4457	1823	1817	495	244	C
ATOM	432	NE1 TRP A 30	-8.032	-18.195	-9.464	1.00	26.48		N
ANISOU	432	NE1 TRP A 30	3390	4793	1879	1806	714	512	N
ATOM	433	CE2 TRP A 30	-7.312	-17.078	-9.799	1.00	25.15		C
ANISOU	433	CE2 TRP A 30	3228	4558	1769	1896	500	306	C

ATOM	434	CE3 TRP A	30	-7.547	-15.154	-11.248	1.00	23.25	C
ANISOU	434	CE3 TRP A	30	2803	4243	1787	1865	295 59	C
ATOM	435	CZ2 TRP A	30	-6.061	-16.651	-9.357	1.00	24.94	C
ANISOU	435	CZ2 TRP A	30	3347	4455	1673	2031	300 174	C
ATOM	436	CZ3 TRP A	30	-6.308	-14.730	-10.805	1.00	22.78	C
ANISOU	436	CZ3 TRP A	30	2889	4095	1672	1961	111 -58	C
ATOM	437	CH2 TRP A	30	-5.578	-15.478	-9.873	1.00	23.72	C
ANISOU	437	CH2 TRP A	30	3152	4227	1632	2058	110 -11	C
ATOM	438	H TRP A	30	-10.576	-14.227	-10.575	1.00	33.77	H
ATOM	439	HA TRP A	30	-12.262	-15.839	-11.953	1.00	33.17	H
ATOM	440	HB2 TRP A	30	-10.808	-17.529	-12.191	1.00	30.52	H
ATOM	441	HB3 TRP A	30	-9.995	-16.254	-12.652	1.00	30.52	H
ATOM	442	HD1 TRP A	30	-9.871	-18.843	-10.108	1.00	32.00	H
ATOM	443	HE1 TRP A	30	-7.785	-18.801	-8.905	1.00	31.78	H
ATOM	444	HE3 TRP A	30	-8.024	-14.655	-11.870	1.00	27.90	H
ATOM	445	HZ2 TRP A	30	-5.575	-17.141	-8.734	1.00	29.92	H
ATOM	446	HZ3 TRP A	30	-5.950	-13.938	-11.137	1.00	27.34	H
ATOM	447	HH2 TRP A	30	-4.748	-15.167	-9.591	1.00	28.46	H
ATOM	448	N SER A	31	-12.869	-17.287	-10.029	1.00	34.31	N
ANISOU	448	N SER A	31	3648	6225	3162	1585	1163 664	N
ATOM	449	CA SER A	31	-13.516	-17.778	-8.822	1.00	38.78	C
ANISOU	449	CA SER A	31	4233	6908	3592	1618	1362 799	C
ATOM	450	C SER A	31	-14.100	-19.159	-9.077	1.00	40.89	C
ANISOU	450	C SER A	31	4394	7176	3965	1352	1541 1020	C
ATOM	451	O SER A	31	-14.731	-19.382	-10.114	1.00	40.20	O
ANISOU	451	O SER A	31	4094	7091	4089	1159	1543 1054	O
ATOM	452	CB SER A	31	-14.620	-16.813	-8.370	1.00	40.99	C
ANISOU	452	CB SER A	31	4381	7345	3848	1749	1419 734	C
ATOM	453	OG SER A	31	-15.380	-17.366	-7.313	1.00	44.85	O
ANISOU	453	OG SER A	31	4846	7963	4230	1755	1649 882	O
ATOM	454	H SER A	31	-13.097	-17.702	-10.747	1.00	41.17	H
ATOM	455	HA SER A	31	-12.860	-17.849	-8.111	1.00	46.53	H
ATOM	456	HB2 SER A	31	-14.211	-15.987	-8.066	1.00	49.19	H
ATOM	457	HB3 SER A	31	-15.208	-16.634	-9.120	1.00	49.19	H
ATOM	458	HG SER A	31	-15.979	-16.826	-7.077	1.00	53.81	H
ATOM	459	N AASN A	32	-13.878	-20.063	-8.122	0.50	43.39	N
ANISOU	459	N AASN A	32	4875	7471	4141	1337	1664 1165	N
ATOM	460	N BASN A	32	-13.892	-20.086	-8.142	0.50	43.40	N
ANISOU	460	N BASN A	32	4872	7471	4146	1330	1667 1169	N
ATOM	461	CA AASN A	32	-14.433	-21.415	-8.131	0.50	45.27	C
ANISOU	461	CA AASN A	32	5068	7677	4457	1073	1836 1391	C
ATOM	462	CA BASN A	32	-14.563	-21.387	-8.199	0.50	45.36	C
ANISOU	462	CA BASN A	32	5046	7700	4489	1059	1843 1392	C
ATOM	463	C AASN A	32	-14.324	-22.042	-9.517	0.50	44.15	C
ANISOU	463	C AASN A	32	4833	7403	4540	820	1755 1439	C
ATOM	464	C BASN A	32	-14.338	-22.074	-9.548	0.50	44.15	C
ANISOU	464	C BASN A	32	4829	7400	4547	810	1756 1443	C
ATOM	465	O AASN A	32	-15.290	-22.559	-10.082	0.50	45.59	O
ANISOU	465	O AASN A	32	4802	7605	4914	577	1832 1542	O
ATOM	466	O BASN A	32	-15.249	-22.668	-10.129	0.50	45.54	O
ANISOU	466	O BASN A	32	4805	7581	4915	556	1830 1554	O
ATOM	467	CB AASN A	32	-15.876	-21.401	-7.631	0.50	48.57	C
ANISOU	467	CB AASN A	32	5267	8275	4913	1012	2045 1478	C

ATOM	468	CB	BASN	A	32	-16.060	-21.218	-7.922	0.50	48.22	C	
ANISOU	468	CB	BASN	A	32	5147	8248	4925	995	2025	1451	C
ATOM	469	CG	AASN	A	32	-15.985	-20.911	-6.196	0.50	50.56	C	
ANISOU	469	CG	AASN	A	32	5643	8651	4919	1263	2150	1459	C
ATOM	470	CG	BASN	A	32	-16.813	-22.533	-7.926	0.50	50.46	C	
ANISOU	470	CG	BASN	A	32	5341	8505	5325	687	2203	1676	C
ATOM	471	OD1	AASN	A	32	-15.155	-21.246	-5.351	0.50	50.84	O	
ANISOU	471	OD1	AASN	A	32	5948	8612	4757	1377	2139	1488	O
ATOM	472	OD1	BASN	A	32	-16.395	-23.505	-7.300	0.50	51.67	O	
ANISOU	472	OD1	BASN	A	32	5708	8555	5368	618	2281	1818	O
ATOM	473	ND2	AASN	A	32	-17.002	-20.106	-5.917	0.50	52.57	N	
ANISOU	473	ND2	AASN	A	32	5707	9088	5179	1364	2239	1405	N
ATOM	474	ND2	BASN	A	32	-17.925	-22.573	-8.654	0.50	51.58	N	
ANISOU	474	ND2	BASN	A	32	5174	8723	5700	494	2244	1703	N
ATOM	475	H	AASN	A	32	-13.388	-19.908	-7.432	0.50	52.07	H	
ATOM	476	H	BASN	A	32	-13.369	-19.989	-7.467	0.50	52.08	H	
ATOM	477	HA	AASN	A	32	-13.918	-21.965	-7.520	0.50	54.33	H	
ATOM	478	HA	BASN	A	32	-14.195	-21.960	-7.508	0.50	54.43	H	
ATOM	479	HB2	AASN	A	32	-16.401	-20.808	-8.192	0.50	58.28	H	
ATOM	480	HB2	BASN	A	32	-16.175	-20.810	-7.050	0.50	57.86	H	
ATOM	481	HB3	AASN	A	32	-16.235	-22.301	-7.670	0.50	58.28	H	
ATOM	482	HB3	BASN	A	32	-16.445	-20.650	-8.607	0.50	57.86	H	
ATOM	483	HD21	AASN	A	32	-17.105	-19.803	-5.119	0.50	63.08	H	
ATOM	484	HD21	BASN	A	32	-18.389	-23.296	-8.690	0.50	61.89	H	
ATOM	485	HD22	AASN	A	32	-17.559	-19.887	-6.535	0.50	63.08	H	
ATOM	486	HD22	BASN	A	32	-18.180	-21.876	-9.088	0.50	61.89	H	
ATOM	487	N	THR	A	33	-13.111	-22.002	-10.059	1.00	41.85	N	
ANISOU	487	N	THR	A	33	4707	6969	4224	878	1586	1359	N
ATOM	488	CA	THR	A	33	-12.851	-22.445	-11.419	1.00	40.58	C	
ANISOU	488	CA	THR	A	33	4504	6642	4271	673	1452	1354	C
ATOM	489	C	THR	A	33	-12.540	-23.939	-11.476	1.00	41.49	C	
ANISOU	489	C	THR	A	33	4797	6551	4416	463	1476	1534	C
ATOM	490	O	THR	A	33	-12.577	-24.657	-10.475	1.00	43.11	O	
ANISOU	490	O	THR	A	33	5142	6763	4477	465	1627	1694	O
ATOM	491	CB	THR	A	33	-11.694	-21.649	-12.027	1.00	37.75	C	
ANISOU	491	CB	THR	A	33	4259	6159	3923	814	1199	1128	C
ATOM	492	OG1	THR	A	33	-10.487	-21.922	-11.300	1.00	36.84	O	
ANISOU	492	OG1	THR	A	33	4413	5957	3628	962	1146	1120	O
ATOM	493	CG2	THR	A	33	-11.990	-20.163	-11.978	1.00	37.74	C	
ANISOU	493	CG2	THR	A	33	4124	6318	3896	1015	1155	953	C
ATOM	494	H	THR	A	33	-12.416	-21.711	-9.645	1.00	50.21	H	
ATOM	495	HA	THR	A	33	-13.641	-22.283	-11.959	1.00	48.69	H	
ATOM	496	HB	THR	A	33	-11.577	-21.908	-12.954	1.00	45.29	H	
ATOM	497	HG1	THR	A	33	-10.307	-22.741	-11.338	1.00	44.21	H	
ATOM	498	HG21	THR	A	33	-11.253	-19.665	-12.365	1.00	45.28	H	
ATOM	499	HG22	THR	A	33	-12.798	-19.970	-12.479	1.00	45.28	H	
ATOM	500	HG23	THR	A	33	-12.115	-19.880	-11.059	1.00	45.28	H	
ATOM	501	N	GLY	A	34	-12.262	-24.413	-12.689	1.00	40.59	N	
ANISOU	501	N	GLY	A	34	4701	6225	4495	283	1304	1488	N
ATOM	502	CA	GLY	A	34	-11.570	-25.669	-12.896	1.00	40.84	C	
ANISOU	502	CA	GLY	A	34	4978	6002	4537	160	1244	1583	C
ATOM	503	C	GLY	A	34	-10.124	-25.357	-13.209	1.00	38.18	C	
ANISOU	503	C	GLY	A	34	4831	5538	4139	344	1048	1415	C

ATOM	504	O	GLY A 34	-9.453	-24.723	-12.395	1.00	37.74	O	
ANISOU	504	O	GLY A 34	4855	5575	3908	585	1041	1344	O
ATOM	505	H	GLY A 34	-12.472	-24.011	-13.420	1.00	48.71	H	
ATOM	506	HA2	GLY A 34	-11.616	-26.215	-12.096	1.00	49.01	H	
ATOM	507	HA3	GLY A 34	-11.964	-26.152	-13.639	1.00	49.01	H	
ATOM	508	N	SER A 35	-9.642	-25.763	-14.384	1.00	32.39	N	
ANISOU	508	N	SER A 35	2854	5348	4105	413	913	624	N
ATOM	509	CA	SER A 35	-8.328	-25.377	-14.884	1.00	30.00	C	
ANISOU	509	CA	SER A 35	2672	4985	3741	442	815	566	C
ATOM	510	C	SER A 35	-8.462	-24.212	-15.855	1.00	27.13	C	
ANISOU	510	C	SER A 35	2297	4632	3379	489	693	428	C
ATOM	511	O	SER A 35	-9.429	-24.134	-16.617	1.00	27.52	O	
ANISOU	511	O	SER A 35	2233	4689	3534	441	664	384	O
ATOM	512	CB	SER A 35	-7.640	-26.540	-15.600	1.00	30.44	C	
ANISOU	512	CB	SER A 35	2741	4914	3912	305	811	616	C
ATOM	513	OG	SER A 35	-7.413	-27.616	-14.715	1.00	33.30	O	
ANISOU	513	OG	SER A 35	3140	5244	4270	272	914	746	O
ATOM	514	H	SER A 35	-10.072	-26.277	-14.922	1.00	38.87	H	
ATOM	515	HA	SER A 35	-7.769	-25.097	-14.143	1.00	36.00	H	
ATOM	516	HB2	SER A 35	-8.208	-26.843	-16.325	1.00	36.53	H	
ATOM	517	HB3	SER A 35	-6.789	-26.235	-15.951	1.00	36.53	H	
ATOM	518	HG	SER A 35	-7.035	-28.247	-15.121	1.00	39.96	H	
ATOM	519	N	PHE A 36	-7.481	-23.314	-15.835	1.00	23.34	N	
ANISOU	519	N	PHE A 36	1939	4146	2785	585	615	357	N
ATOM	520	CA	PHE A 36	-7.489	-22.192	-16.760	1.00	20.87	C	
ANISOU	520	CA	PHE A 36	1642	3816	2470	635	495	233	C
ATOM	521	C	PHE A 36	-6.079	-21.643	-16.893	1.00	19.01	C	
ANISOU	521	C	PHE A 36	1543	3525	2156	685	418	177	C
ATOM	522	O	PHE A 36	-5.261	-21.764	-15.979	1.00	18.38	O	
ANISOU	522	O	PHE A 36	1546	3456	1983	729	450	208	O
ATOM	523	CB	PHE A 36	-8.448	-21.088	-16.302	1.00	21.23	C	
ANISOU	523	CB	PHE A 36	1670	3945	2452	751	484	173	C
ATOM	524	CG	PHE A 36	-7.920	-20.252	-15.168	1.00	21.07	C	
ANISOU	524	CG	PHE A 36	1765	3967	2272	886	480	143	C
ATOM	525	CD1	PHE A 36	-8.217	-20.576	-13.854	1.00	23.11	C	
ANISOU	525	CD1	PHE A 36	2020	4311	2450	936	578	218	C
ATOM	526	CD2	PHE A 36	-7.141	-19.133	-15.419	1.00	20.30	C	
ANISOU	526	CD2	PHE A 36	1783	3818	2111	964	371	36	C
ATOM	527	CE1	PHE A 36	-7.731	-19.806	-12.809	1.00	24.31	C	
ANISOU	527	CE1	PHE A 36	2277	4509	2450	1069	554	177	C
ATOM	528	CE2	PHE A 36	-6.654	-18.362	-14.389	1.00	20.94	C	
ANISOU	528	CE2	PHE A 36	1967	3930	2060	1080	349	-11	C
ATOM	529	CZ	PHE A 36	-6.950	-18.697	-13.076	1.00	23.23	C	
ANISOU	529	CZ	PHE A 36	2249	4319	2260	1137	434	55	C
ATOM	530	H	PHE A 36	-6.806	-23.334	-15.301	1.00	28.01	H	
ATOM	531	HA	PHE A 36	-7.778	-22.500	-17.633	1.00	25.04	H	
ATOM	532	HB2	PHE A 36	-8.622	-20.495	-17.050	1.00	25.48	H	
ATOM	533	HB3	PHE A 36	-9.277	-21.496	-16.007	1.00	25.48	H	
ATOM	534	HD1	PHE A 36	-8.739	-21.323	-13.671	1.00	27.73	H	
ATOM	535	HD2	PHE A 36	-6.937	-18.905	-16.298	1.00	24.36	H	
ATOM	536	HE1	PHE A 36	-7.933	-20.033	-11.930	1.00	29.17	H	
ATOM	537	HE2	PHE A 36	-6.130	-17.616	-14.573	1.00	25.13	H	
ATOM	538	HZ	PHE A 36	-6.625	-18.177	-12.378	1.00	27.88	H	

ATOM	539	N	AVAL	A	37	-5.797	-21.055	-18.054	0.73	17.61	N	
ANISOU	539	N	AVAL	A	37	1418	3251	2023	658	298	92	N
ATOM	540	N	BVAL	A	37	-5.807	-21.046	-18.051	0.27	17.83	N	
ANISOU	540	N	BVAL	A	37	1444	3279	2049	659	298	91	N
ATOM	541	CA	AVAL	A	37	-4.533	-20.374	-18.317	0.73	17.26	C	
ANISOU	541	CA	AVAL	A	37	1521	3107	1929	675	205	28	C
ATOM	542	CA	BVAL	A	37	-4.527	-20.404	-18.318	0.27	17.28	C	
ANISOU	542	CA	BVAL	A	37	1523	3109	1933	673	207	30	C
ATOM	543	C	AVAL	A	37	-4.848	-19.156	-19.183	0.73	16.75	C	
ANISOU	543	C	AVAL	A	37	1486	3004	1875	729	105	-66	C
ATOM	544	C	BVAL	A	37	-4.788	-19.222	-19.245	0.27	16.68	C	
ANISOU	544	C	BVAL	A	37	1480	2988	1872	719	104	-64	C
ATOM	545	O	AVAL	A	37	-5.549	-19.279	-20.194	0.73	17.27	O	
ANISOU	545	O	AVAL	A	37	1489	3056	2016	687	72	-76	O
ATOM	546	O	BVAL	A	37	-5.380	-19.383	-20.318	0.27	17.07	O	
ANISOU	546	O	BVAL	A	37	1476	3012	1999	668	66	-73	O
ATOM	547	CB	AVAL	A	37	-3.503	-21.284	-19.024	0.73	16.23	C	
ANISOU	547	CB	AVAL	A	37	1447	2861	1860	550	181	64	C
ATOM	548	CB	BVAL	A	37	-3.513	-21.395	-18.928	0.27	16.27	C	
ANISOU	548	CB	BVAL	A	37	1446	2871	1863	547	192	73	C
ATOM	549	CG1	AVAL	A	37	-2.130	-20.611	-19.042	0.73	15.60	C	
ANISOU	549	CG1	AVAL	A	37	1499	2703	1727	572	109	13	C
ATOM	550	CG1	BVAL	A	37	-3.255	-22.564	-17.986	0.27	17.35	C	
ANISOU	550	CG1	BVAL	A	37	1565	3042	1986	516	295	177	C
ATOM	551	CG2	AVAL	A	37	-3.394	-22.672	-18.381	0.73	17.37	C	
ANISOU	551	CG2	AVAL	A	37	1553	3024	2025	486	283	172	C
ATOM	552	CG2	BVAL	A	37	-3.997	-21.924	-20.266	0.27	16.25	C	
ANISOU	552	CG2	BVAL	A	37	1392	2809	1975	447	154	68	C
ATOM	553	H	AVAL	A	37	-6.338	-21.037	-18.723	0.73	21.14	H	
ATOM	554	H	BVAL	A	37	-6.360	-21.000	-18.709	0.27	21.39	H	
ATOM	555	HA	AVAL	A	37	-4.150	-20.067	-17.481	0.73	20.71	H	
ATOM	556	HA	BVAL	A	37	-4.159	-20.064	-17.487	0.27	20.74	H	
ATOM	557	HB	AVAL	A	37	-3.780	-21.409	-19.945	0.73	19.48	H	
ATOM	558	HB	BVAL	A	37	-2.670	-20.936	-19.074	0.27	19.52	H	
ATOM	559	HG11	AVAL	A	37	-1.497	-21.195	-19.488	0.73	18.72	H	
ATOM	560	HG11	BVAL	A	37	-2.616	-23.166	-18.398	0.27	20.82	H	
ATOM	561	HG12	AVAL	A	37	-2.197	-19.769	-19.520	0.73	18.72	H	
ATOM	562	HG12	BVAL	A	37	-2.899	-22.224	-17.151	0.27	20.82	H	
ATOM	563	HG13	AVAL	A	37	-1.845	-20.451	-18.128	0.73	18.72	H	
ATOM	564	HG13	BVAL	A	37	-4.091	-23.029	-17.825	0.27	20.82	H	
ATOM	565	HG21	AVAL	A	37	-4.008	-22.721	-17.632	0.73	20.85	H	
ATOM	566	HG21	BVAL	A	37	-4.858	-21.527	-20.469	0.27	19.50	H	
ATOM	567	HG22	AVAL	A	37	-3.623	-23.345	-19.042	0.73	20.85	H	
ATOM	568	HG22	BVAL	A	37	-3.352	-21.687	-20.951	0.27	19.50	H	
ATOM	569	HG23	AVAL	A	37	-2.484	-22.807	-18.074	0.73	20.85	H	
ATOM	570	HG23	BVAL	A	37	-4.082	-22.889	-20.211	0.27	19.50	H	
ATOM	571	N	AVAL	A	38	-4.337	-17.987	-18.794	0.73	16.90	N	
ANISOU	571	N	AVAL	A	38	1602	3000	1821	826	52	-138	N
ATOM	572	N	BVAL	A	38	-4.373	-18.024	-18.837	0.27	16.89	N	
ANISOU	572	N	BVAL	A	38	1596	2999	1823	822	52	-136	N
ATOM	573	CA	AVAL	A	38	-4.649	-16.724	-19.463	0.73	16.41	C	
ANISOU	573	CA	AVAL	A	38	1583	2889	1763	898	-35	-219	C
ATOM	574	CA	BVAL	A	38	-4.606	-16.824	-19.630	0.27	16.29	C	

ANISOU 574 CA BVAL A 38	1567 2863 1760 880 -38 -213	C
ATOM 575 C AVAL A 38	-3.394 -15.861 -19.493 0.73 16.04	C
ANISOU 575 C AVAL A 38	1678 2723 1693 908 -110 -274	C
ATOM 576 C BVAL A 38	-3.381 -15.927 -19.548 0.27 16.01	C
ANISOU 576 C BVAL A 38	1672 2717 1694 900 -109 -270	C
ATOM 577 O AVAL A 38	-2.635 -15.826 -18.518 0.73 16.01	O
ANISOU 577 O AVAL A 38	1721 2729 1632 931 -100 -289	O
ATOM 578 O BVAL A 38	-2.639 -15.941 -18.561 0.27 16.03	O
ANISOU 578 O BVAL A 38	1718 2733 1639 921 -95 -281	O
ATOM 579 CB AVAL A 38	-5.794 -15.972 -18.744 0.73 17.66	C
ANISOU 579 CB AVAL A 38	1692 3153 1866 1031 -12 -259	C
ATOM 580 CB BVAL A 38	-5.863 -16.049 -19.169 0.27 17.50	C
ANISOU 580 CB BVAL A 38	1660 3115 1873 1010 -25 -255	C
ATOM 581 CG1AVAL A 38	-6.013 -14.591 -19.358 0.73 17.61	C
ANISOU 581 CG1AVAL A 38	1766 3066 1859 1104 -106 -338	C
ATOM 582 CG1BVAL A 38	-7.053 -16.984 -18.991 0.27 18.08	C
ANISOU 582 CG1BVAL A 38	1585 3300 1984 965 60 -188	C
ATOM 583 CG2AVAL A 38	-7.087 -16.779 -18.786 0.73 18.14	C
ANISOU 583 CG2AVAL A 38	1605 3314 1972 989 61 -198	C
ATOM 584 CG2BVAL A 38	-5.596 -15.301 -17.881 0.27 17.71	C
ANISOU 584 CG2BVAL A 38	1762 3169 1796 1109 -18 -301	C
ATOM 585 H AVAL A 38	-3.795 -17.899 -18.132 0.73 20.28	H
ATOM 586 H BVAL A 38	-3.953 -17.881 -18.100 0.27 20.27	H
ATOM 587 HA AVAL A 38	-4.924 -16.901 -20.376 0.73 19.69	H
ATOM 588 HA BVAL A 38	-4.733 -17.077 -20.558 0.27 19.55	H
ATOM 589 HB AVAL A 38	-5.551 -15.848 -17.813 0.73 21.20	H
ATOM 590 HB BVAL A 38	-6.095 -15.397 -19.848 0.27 21.00	H
ATOM 591 HG11AVAL A 38	-6.735 -14.147 -18.886 0.73 21.13	H
ATOM 592 HG11BVAL A 38	-7.821 -16.466 -18.703 0.27 21.69	H
ATOM 593 HG12AVAL A 38	-5.195 -14.076 -19.274 0.73 21.13	H
ATOM 594 HG12BVAL A 38	-7.244 -17.415 -19.839 0.27 21.69	H
ATOM 595 HG13AVAL A 38	-6.244 -14.696 -20.294 0.73 21.13	H
ATOM 596 HG13BVAL A 38	-6.833 -17.651 -18.323 0.27 21.69	H
ATOM 597 HG21AVAL A 38	-7.783 -16.282 -18.328 0.73 21.76	H
ATOM 598 HG21BVAL A 38	-6.401 -14.827 -17.619 0.27 21.25	H
ATOM 599 HG22AVAL A 38	-7.337 -16.925 -19.711 0.73 21.76	H
ATOM 600 HG22BVAL A 38	-5.348 -15.937 -17.192 0.27 21.25	H
ATOM 601 HG23AVAL A 38	-6.942 -17.630 -18.344 0.73 21.76	H
ATOM 602 HG23BVAL A 38	-4.873 -14.671 -18.026 0.27 21.25	H
ATOM 603 N GLY A 39	-3.185 -15.132 -20.587 1.00 15.87	N
ANISOU 603 N GLY A 39	1722 2591 1718 895 -186 -303	N
ATOM 604 CA GLY A 39	-2.094 -14.175 -20.596 1.00 16.51	C
ANISOU 604 CA GLY A 39	1925 2551 1799 902 -250 -353	C
ATOM 605 C GLY A 39	-1.775 -13.643 -21.973 1.00 15.87	C
ANISOU 605 C GLY A 39	1911 2342 1778 860 -307 -343	C
ATOM 606 O GLY A 39	-2.253 -14.137 -22.996 1.00 14.16	O
ANISOU 606 O GLY A 39	1655 2134 1589 821 -305 -300	O
ATOM 607 H GLY A 39	-3.659 -15.152 -21.304 1.00 19.05	H
ATOM 608 HA2 GLY A 39	-2.322 -13.425 -20.026 1.00 19.82	H
ATOM 609 HA3 GLY A 39	-1.296 -14.597 -20.241 1.00 19.82	H
ATOM 610 N LYS A 40	-0.925 -12.615 -21.970 1.00 15.73	N
ANISOU 610 N LYS A 40	1995 2202 1778 869 -360 -384	N
ATOM 611 CA LYS A 40	-0.365 -12.032 -23.179 1.00 15.43	C

ANISOU 611 CA LYS A 40	2038	2027	1798	823	-398	-356	C
ATOM 612 C LYS A 40	1.051	-12.552	-23.396	1.00	14.76		C
ANISOU 612 C LYS A 40	1977	1881	1751	698	-384	-316	C
ATOM 613 O LYS A 40	1.783	-12.845	-22.444	1.00	13.79		O
ANISOU 613 O LYS A 40	1841	1781	1618	670	-377	-343	O
ATOM 614 CB LYS A 40	-0.334	-10.498	-23.100	1.00	15.84		C
ANISOU 614 CB LYS A 40	2188	1960	1872	904	-458	-416	C
ATOM 615 CG LYS A 40	-1.691	-9.793	-23.166	1.00	17.79		C
ANISOU 615 CG LYS A 40	2430	2242	2088	1048	-482	-451	C
ATOM 616 CD LYS A 40	-2.182	-9.663	-24.593	1.00	18.71		C
ANISOU 616 CD LYS A 40	2565	2322	2221	1059	-497	-388	C
ATOM 617 CE LYS A 40	-3.520	-8.969	-24.673	1.00	19.58		C
ANISOU 617 CE LYS A 40	2662	2481	2296	1184	-520	-418	C
ATOM 618 NZ LYS A 40	-3.458	-7.542	-24.266	1.00	20.58		N
ANISOU 618 NZ LYS A 40	2892	2495	2433	1248	-558	-471	N
ATOM 619 H LYS A 40	-0.652	-12.229	-21.252	1.00	18.87		H
ATOM 620 HA LYS A 40	-0.906	-12.288	-23.942	1.00	18.52		H
ATOM 621 HB2 LYS A 40	0.083	-10.245	-22.262	1.00	19.01		H
ATOM 622 HB3 LYS A 40	0.201	-10.166	-23.839	1.00	19.01		H
ATOM 623 HG2 LYS A 40	-2.344	-10.307	-22.666	1.00	21.35		H
ATOM 624 HG3 LYS A 40	-1.607	-8.902	-22.792	1.00	21.35		H
ATOM 625 HD2 LYS A 40	-1.541	-9.144	-25.104	1.00	22.45		H
ATOM 626 HD3 LYS A 40	-2.277	-10.548	-24.978	1.00	22.45		H
ATOM 627 HE2 LYS A 40	-3.841	-9.006	-25.587	1.00	23.50		H
ATOM 628 HE3 LYS A 40	-4.146	-9.421	-24.085	1.00	23.50		H
ATOM 629 HZ1 LYS A 40	-3.175	-7.478	-23.424	1.00	24.70		H
ATOM 630 HZ2 LYS A 40	-2.896	-7.099	-24.795	1.00	24.70		H
ATOM 631 HZ3 LYS A 40	-4.266	-7.173	-24.327	1.00	24.70		H
ATOM 632 N GLY A 41	1.432	-12.655	-24.665	1.00	14.84		N
ANISOU 632 N GLY A 41	2019	1824	1796	638	-380	-253	N
ATOM 633 CA GLY A 41	2.775	-13.059	-25.008	1.00	14.55		C
ANISOU 633 CA GLY A 41	2001	1731	1798	530	-359	-211	C
ATOM 634 C GLY A 41	3.050	-13.017	-26.494	1.00	13.93		C
ANISOU 634 C GLY A 41	1966	1587	1739	494	-347	-138	C
ATOM 635 O GLY A 41	2.623	-12.091	-27.195	1.00	13.72		O
ANISOU 635 O GLY A 41	2003	1493	1718	549	-371	-122	O
ATOM 636 H GLY A 41	0.926	-12.495	-25.342	1.00	17.81		H
ATOM 637 HA2 GLY A 41	3.408	-12.473	-24.564	1.00	17.47		H
ATOM 638 HA3 GLY A 41	2.926	-13.964	-24.695	1.00	17.47		H
ATOM 639 N TRP A 42	3.763	-14.025	-26.983	1.00	13.23		N
ANISOU 639 N TRP A 42	1853	1523	1652	417	-308	-89	N
ATOM 640 CA TRP A 42	4.221	-14.058	-28.364	1.00	13.61		C
ANISOU 640 CA TRP A 42	1947	1523	1703	388	-285	-18	C
ATOM 641 C TRP A 42	3.719	-15.306	-29.080	1.00	13.15		C
ANISOU 641 C TRP A 42	1849	1552	1597	385	-271	0	C
ATOM 642 O TRP A 42	3.656	-16.401	-28.499	1.00	11.48		O
ANISOU 642 O TRP A 42	1571	1411	1381	352	-256	-20	O
ATOM 643 CB TRP A 42	5.753	-13.993	-28.420	1.00	14.07		C
ANISOU 643 CB TRP A 42	2017	1515	1814	301	-251	18	C
ATOM 644 CG TRP A 42	6.301	-12.699	-27.907	1.00	14.90		C
ANISOU 644 CG TRP A 42	2161	1508	1990	288	-275	-5	C
ATOM 645 CD1 TRP A 42	6.663	-11.609	-28.645	1.00	15.10		C
ANISOU 645 CD1 TRP A 42	2260	1411	2069	279	-266	48	C

ATOM	646	CD2 TRP A 42	6.546 -12.355 -26.541	1.00 14.70	C
ANISOU	646	CD2 TRP A 42	2110 1478 1997	284 -316 -88	C
ATOM	647	NE1 TRP A 42	7.115 -10.608 -27.827	1.00 17.09	N
ANISOU	647	NE1 TRP A 42	2528 1563 2403	256 -304 -5	N
ATOM	648	CE2 TRP A 42	7.054 -11.038 -26.527	1.00 16.45	C
ANISOU	648	CE2 TRP A 42	2388 1559 2304	264 -342 -100	C
ATOM	649	CE3 TRP A 42	6.380 -13.027 -25.328	1.00 15.28	C
ANISOU	649	CE3 TRP A 42	2123 1650 2031	301 -332 -153	C
ATOM	650	CZ2 TRP A 42	7.403 -10.384 -25.347	1.00 17.09	C
ANISOU	650	CZ2 TRP A 42	2464 1597 2434	262 -401 -196	C
ATOM	651	CZ3 TRP A 42	6.732 -12.376 -24.156	1.00 16.02	C
ANISOU	651	CZ3 TRP A 42	2217 1719 2150	314 -383 -238	C
ATOM	652	CH2 TRP A 42	7.237 -11.069 -24.175	1.00 17.04	C
ANISOU	652	CH2 TRP A 42	2400 1708 2367	294 -425 -270	C
ATOM	653	H TRP A 42	3.998 -14.714 -26.525	1.00 15.88	H
ATOM	654	HA TRP A 42	3.871 -13.284 -28.831	1.00 16.33	H
ATOM	655	HB2 TRP A 42	6.119 -14.709 -27.877	1.00 16.88	H
ATOM	656	HB3 TRP A 42	6.040 -14.096 -29.341	1.00 16.88	H
ATOM	657	HD1 TRP A 42	6.607 -11.553 -29.572	1.00 18.13	H
ATOM	658	HE1 TRP A 42	7.394 -9.837 -28.086	1.00 20.51	H
ATOM	659	HE3 TRP A 42	6.047 -13.895 -25.308	1.00 18.33	H
ATOM	660	HZ2 TRP A 42	7.740 -9.517 -25.356	1.00 20.51	H
ATOM	661	HZ3 TRP A 42	6.627 -12.813 -23.342	1.00 19.22	H
ATOM	662	HH2 TRP A 42	7.461 -10.656 -23.372	1.00 20.45	H
ATOM	663	N THR A 43	3.386 -15.127 -30.358	1.00 13.76	N
ANISOU	663	N THR A 43	1973 1616 1639	425 -279 38	N
ATOM	664	CA THR A 43	2.898 -16.230 -31.176	1.00 12.97	C
ANISOU	664	CA THR A 43	1844 1589 1493	431 -285 36	C
ATOM	665	C THR A 43	3.968 -17.294 -31.353	1.00 12.64	C
ANISOU	665	C THR A 43	1790 1556 1457	357 -238 58	C
ATOM	666	O THR A 43	3.675 -18.496 -31.279	1.00 12.76	O
ANISOU	666	O THR A 43	1752 1627 1469	333 -240 29	O
ATOM	667	CB THR A 43	2.440 -15.699 -32.535	1.00 14.31	C
ANISOU	667	CB THR A 43	2083 1748 1604	509 -312 68	C
ATOM	668	OG1 THR A 43	1.437 -14.696 -32.331	1.00 13.31	O
ANISOU	668	OG1 THR A 43	1970 1614 1475	593 -360 46	O
ATOM	669	CG2 THR A 43	1.870 -16.833 -33.393	1.00 15.49	C
ANISOU	669	CG2 THR A 43	2202 1980 1704	525 -341 39	C
ATOM	670	H THR A 43	3.434 -14.376 -30.773	1.00 16.51	H
ATOM	671	HA THR A 43	2.135 -16.638 -30.738	1.00 15.56	H
ATOM	672	HB THR A 43	3.196 -15.310 -33.002	1.00 17.17	H
ATOM	673	HG1 THR A 43	1.177 -14.396 -33.071	1.00 15.98	H
ATOM	674	HG21 THR A 43	1.583 -16.486 -34.252	1.00 18.59	H
ATOM	675	HG22 THR A 43	2.548 -17.512 -33.537	1.00 18.59	H
ATOM	676	HG23 THR A 43	1.110 -17.237 -32.945	1.00 18.59	H
ATOM	677	N THR A 44	5.214 -16.875 -31.579	1.00 13.02	N
ANISOU	677	N THR A 44	1880 1543 1525	320 -193 111	N
ATOM	678	CA THR A 44	6.336 -17.795 -31.741	1.00 14.32	C
ANISOU	678	CA THR A 44	2026 1720 1695	263 -143 135	C
ATOM	679	C THR A 44	7.317 -17.560 -30.602	1.00 13.36	C
ANISOU	679	C THR A 44	1868 1570 1640	203 -123 131	C
ATOM	680	O THR A 44	7.999 -16.525 -30.556	1.00 12.07	O
ANISOU	680	O THR A 44	1729 1336 1521	180 -110 159	O

ATOM	681	CB	THR	A	44	7.026	-17.619	-33.095	1.00	16.15	C	
ANISOU	681	CB	THR	A	44	2319	1930	1886	281	-99	203	C
ATOM	682	OG1	THR	A	44	6.069	-17.784	-34.155	1.00	17.26	O	
ANISOU	682	OG1	THR	A	44	2502	2109	1947	358	-135	195	O
ATOM	683	CG2	THR	A	44	8.145	-18.656	-33.265	1.00	15.77	C	
ANISOU	683	CG2	THR	A	44	2244	1910	1838	239	-45	219	C
ATOM	684	H	THR	A	44	5.437	-16.047	-31.643	1.00	15.63	H	
ATOM	685	HA	THR	A	44	6.012	-18.707	-31.681	1.00	17.19	H	
ATOM	686	HB	THR	A	44	7.417	-16.733	-33.147	1.00	19.37	H	
ATOM	687	HG1	THR	A	44	5.459	-17.212	-34.083	1.00	20.71	H	
ATOM	688	HG21	THR	A	44	8.578	-18.539	-34.125	1.00	18.92	H	
ATOM	689	HG22	THR	A	44	8.806	-18.549	-32.563	1.00	18.92	H	
ATOM	690	HG23	THR	A	44	7.777	-19.552	-33.218	1.00	18.92	H	
ATOM	691	N	GLY	A	45	7.390	-18.522	-29.687	1.00	12.12	N	
ANISOU	691	N	GLY	A	45	1652	1461	1492	178	-124	96	N
ATOM	692	CA	GLY	A	45	8.380	-18.460	-28.637	1.00	11.61	C	
ANISOU	692	CA	GLY	A	45	1549	1390	1471	136	-116	85	C
ATOM	693	C	GLY	A	45	9.795	-18.542	-29.174	1.00	12.39	C	
ANISOU	693	C	GLY	A	45	1642	1467	1598	93	-69	131	C
ATOM	694	O	GLY	A	45	10.061	-18.995	-30.293	1.00	13.10	O	
ANISOU	694	O	GLY	A	45	1755	1564	1657	100	-30	173	O
ATOM	695	H	GLY	A	45	6.878	-19.213	-29.658	1.00	14.55	H	
ATOM	696	HA2	GLY	A	45	8.283	-17.626	-28.151	1.00	13.93	H	
ATOM	697	HA3	GLY	A	45	8.242	-19.195	-28.019	1.00	13.93	H	
ATOM	698	N	SER	A	46	10.722	-18.100	-28.330	1.00	13.28	N	
ANISOU	698	N	SER	A	46	1717	1563	1767	53	-77	116	N
ATOM	699	CA	SER	A	46	12.144	-18.126	-28.609	1.00	15.24	C	
ANISOU	699	CA	SER	A	46	1926	1801	2063	5	-36	152	C
ATOM	700	C	SER	A	46	12.880	-18.522	-27.337	1.00	14.44	C	
ANISOU	700	C	SER	A	46	1755	1743	1989	-12	-66	104	C
ATOM	701	O	SER	A	46	12.536	-18.033	-26.247	1.00	13.72	O	
ANISOU	701	O	SER	A	46	1657	1649	1905	-1	-124	44	O
ATOM	702	CB	SER	A	46	12.663	-16.764	-29.089	1.00	16.59	C	
ANISOU	702	CB	SER	A	46	2114	1882	2306	-40	-20	189	C
ATOM	703	OG	SER	A	46	14.077	-16.726	-29.076	1.00	17.16	O	
ANISOU	703	OG	SER	A	46	2117	1952	2450	-101	15	213	O
ATOM	704	H	SER	A	46	10.538	-17.767	-27.559	1.00	15.94	H	
ATOM	705	HA	SER	A	46	12.330	-18.788	-29.293	1.00	18.29	H	
ATOM	706	HB2	SER	A	46	12.352	-16.609	-29.994	1.00	19.91	H	
ATOM	707	HB3	SER	A	46	12.324	-16.072	-28.499	1.00	19.91	H	
ATOM	708	HG	SER	A	46	14.347	-15.975	-29.341	1.00	20.59	H	
ATOM	709	N	PRO	A	47	13.901	-19.378	-27.438	1.00	14.59	N	
ANISOU	709	N	PRO	A	47	1724	1808	2013	-22	-32	127	N
ATOM	710	CA	PRO	A	47	14.744	-19.669	-26.276	1.00	15.17	C	
ANISOU	710	CA	PRO	A	47	1725	1928	2110	-26	-68	84	C
ATOM	711	C	PRO	A	47	15.722	-18.559	-25.934	1.00	17.17	C	
ANISOU	711	C	PRO	A	47	1920	2142	2460	-88	-99	57	C
ATOM	712	O	PRO	A	47	16.474	-18.699	-24.963	1.00	18.12	O	
ANISOU	712	O	PRO	A	47	1973	2308	2603	-88	-147	7	O
ATOM	713	CB	PRO	A	47	15.487	-20.943	-26.709	1.00	15.64	C	
ANISOU	713	CB	PRO	A	47	1753	2043	2145	-4	-17	123	C
ATOM	714	CG	PRO	A	47	15.601	-20.814	-28.199	1.00	15.69	C	
ANISOU	714	CG	PRO	A	47	1790	2020	2152	-18	53	185	C

ATOM	715	CD	PRO A	47	14.343	-20.112	-28.642	1.00	15.43	C	
ANISOU	715	CD	PRO A	47	1837	1933	2093	-13	38	186	C
ATOM	716	HA	PRO A	47	14.195	-19.865	-25.501	1.00	18.20	H	
ATOM	717	HB2	PRO A	47	16.364	-20.969	-26.296	1.00	18.77	H	
ATOM	718	HB3	PRO A	47	14.967	-21.726	-26.469	1.00	18.77	H	
ATOM	719	HG2	PRO A	47	16.384	-20.286	-28.421	1.00	18.83	H	
ATOM	720	HG3	PRO A	47	15.659	-21.696	-28.599	1.00	18.83	H	
ATOM	721	HD2	PRO A	47	14.539	-19.492	-29.361	1.00	18.52	H	
ATOM	722	HD3	PRO A	47	13.671	-20.760	-28.906	1.00	18.52	H	
ATOM	723	N	PHE A	48	15.735	-17.468	-26.699	1.00	17.61	N	
ANISOU	723	N	PHE A	48	2001	2112	2579	-138	-76	89	N
ATOM	724	CA	PHE A	48	16.632	-16.348	-26.452	1.00	19.26	C	
ANISOU	724	CA	PHE A	48	2153	2254	2910	-217	-102	67	C
ATOM	725	C	PHE A	48	15.889	-15.103	-26.012	1.00	18.95	C	
ANISOU	725	C	PHE A	48	2174	2118	2909	-225	-166	13	C
ATOM	726	O	PHE A	48	16.511	-14.048	-25.849	1.00	19.51	O	
ANISOU	726	O	PHE A	48	2213	2100	3099	-298	-195	-13	O
ATOM	727	CB	PHE A	48	17.445	-16.046	-27.713	1.00	22.45	C	
ANISOU	727	CB	PHE A	48	2530	2619	3381	-278	-6	166	C
ATOM	728	CG	PHE A	48	17.996	-17.269	-28.358	1.00	24.37	C	
ANISOU	728	CG	PHE A	48	2737	2957	3565	-244	69	222	C
ATOM	729	CD1	PHE A	48	19.010	-17.982	-27.752	1.00	25.74	C	
ANISOU	729	CD1	PHE A	48	2807	3214	3760	-243	54	191	C
ATOM	730	CD2	PHE A	48	17.481	-17.725	-29.559	1.00	25.76	C	
ANISOU	730	CD2	PHE A	48	2987	3143	3656	-197	144	296	C
ATOM	731	CE1	PHE A	48	19.512	-19.126	-28.337	1.00	26.42	C	
ANISOU	731	CE1	PHE A	48	2866	3381	3790	-195	121	237	C
ATOM	732	CE2	PHE A	48	17.980	-18.872	-30.145	1.00	26.51	C	
ANISOU	732	CE2	PHE A	48	3059	3321	3694	-152	206	331	C
ATOM	733	CZ	PHE A	48	18.994	-19.569	-29.530	1.00	26.37	C	
ANISOU	733	CZ	PHE A	48	2941	3376	3704	-151	197	303	C
ATOM	734	H	PHE A	48	15.221	-17.354	-27.379	1.00	21.14	H	
ATOM	735	HA	PHE A	48	17.252	-16.591	-25.747	1.00	23.11	H	
ATOM	736	HB2	PHE A	48	16.874	-15.600	-28.357	1.00	26.94	H	
ATOM	737	HB3	PHE A	48	18.190	-15.471	-27.477	1.00	26.94	H	
ATOM	738	HD1	PHE A	48	19.360	-17.687	-26.942	1.00	30.89	H	
ATOM	739	HD2	PHE A	48	16.793	-17.257	-29.973	1.00	30.91	H	
ATOM	740	HE1	PHE A	48	20.199	-19.598	-27.923	1.00	31.70	H	
ATOM	741	HE2	PHE A	48	17.633	-19.170	-30.955	1.00	31.82	H	
ATOM	742	HZ	PHE A	48	19.335	-20.337	-29.927	1.00	31.65	H	
ATOM	743	N	ARG A	49	14.579	-15.190	-25.824	1.00	17.79	N	
ANISOU	743	N	ARG A	49	2108	1980	2673	-153	-188	-9	N
ATOM	744	CA	ARG A	49	13.806	-14.012	-25.481	1.00	16.69	C	
ANISOU	744	CA	ARG A	49	2031	1751	2559	-139	-244	-60	C
ATOM	745	C	ARG A	49	13.929	-13.704	-23.998	1.00	15.92	C	
ANISOU	745	C	ARG A	49	1903	1673	2471	-118	-344	-183	C
ATOM	746	O	ARG A	49	13.866	-14.600	-23.151	1.00	15.25	O	
ANISOU	746	O	ARG A	49	1788	1701	2305	-65	-367	-221	O
ATOM	747	CB	ARG A	49	12.341	-14.209	-25.853	1.00	15.84	C	
ANISOU	747	CB	ARG A	49	2005	1662	2353	-58	-231	-39	C
ATOM	748	CG	ARG A	49	11.432	-13.100	-25.345	1.00	16.84	C	
ANISOU	748	CG	ARG A	49	2193	1718	2488	-13	-293	-104	C
ATOM	749	CD	ARG A	49	10.033	-13.165	-25.946	1.00	17.82	C	

ANISOU 749 CD ARG A 49	2382 1857 2532 64 -275 -72	C
ATOM 750 NE ARG A 49	10.002 -12.754 -27.357 1.00 20.07	N
ANISOU 750 NE ARG A 49	2721 2070 2835 49 -222 24	N
ATOM 751 CZ ARG A 49	9.642 -13.530 -28.380 1.00 20.30	C
ANISOU 751 CZ ARG A 49	2764 2156 2794 74 -171 93	C
ATOM 752 NH1 ARG A 49	9.255 -14.781 -28.189 1.00 19.40	N
ANISOU 752 NH1 ARG A 49	2611 2153 2608 99 -165 76	N
ATOM 753 NH2 ARG A 49	9.658 -13.038 -29.613 1.00 21.88	N
ANISOU 753 NH2 ARG A 49	3022 2294 2995 78 -127 178	N
ATOM 754 H ARG A 49	14.119 -15.913 -25.889 1.00 21.35	H
ATOM 755 HA ARG A 49	14.145 -13.251 -25.978 1.00 20.03	H
ATOM 756 HB2 ARG A 49	12.263 -14.238 -26.820 1.00 19.01	H
ATOM 757 HB3 ARG A 49	12.030 -15.046 -25.473 1.00 19.01	H
ATOM 758 HG2 ARG A 49	11.349 -13.176 -24.382 1.00 20.21	H
ATOM 759 HG3 ARG A 49	11.819 -12.242 -25.578 1.00 20.21	H
ATOM 760 HD2 ARG A 49	9.707 -14.077 -25.891 1.00 21.38	H
ATOM 761 HD3 ARG A 49	9.448 -12.573 -25.448 1.00 21.38	H
ATOM 762 HE ARG A 49	10.236 -11.946 -27.538 1.00 24.09	H
ATOM 763 HH11 ARG A 49	9.240 -15.110 -27.395 1.00 23.28	H
ATOM 764 HH12 ARG A 49	9.023 -15.267 -28.860 1.00 23.28	H
ATOM 765 HH21 ARG A 49	9.905 -12.226 -29.749 1.00 26.25	H
ATOM 766 HH22 ARG A 49	9.423 -13.533 -30.277 1.00 26.25	H
ATOM 767 N THR A 50	14.103 -12.425 -23.686 1.00 16.88	N
ANISOU 767 N THR A 50	2042 1681 2690 -154 -404 -246	N
ATOM 768 CA THR A 50	13.969 -11.933 -22.323 1.00 18.36	C
ANISOU 768 CA THR A 50	2231 1876 2871 -109 -513 -384	C
ATOM 769 C THR A 50	12.544 -11.423 -22.168 1.00 17.89	C
ANISOU 769 C THR A 50	2269 1790 2741 -16 -530 -413	C
ATOM 770 O THR A 50	12.144 -10.454 -22.827 1.00 19.07	O
ANISOU 770 O THR A 50	2485 1811 2952 -30 -521 -387	O
ATOM 771 CB THR A 50	14.990 -10.842 -22.019 1.00 21.34	C
ANISOU 771 CB THR A 50	2566 2136 3407 -200 -585 -460	C
ATOM 772 OG1 THR A 50	16.308 -11.394 -22.110 1.00 22.77	O
ANISOU 772 OG1 THR A 50	2632 2369 3652 -279 -569 -437	O
ATOM 773 CG2 THR A 50	14.784 -10.281 -20.617 1.00 22.52	C
ANISOU 773 CG2 THR A 50	2731 2291 3535 -135 -714 -627	C
ATOM 774 H THR A 50	14.302 -11.813 -24.257 1.00 20.25	H
ATOM 775 HA THR A 50	14.105 -12.664 -21.700 1.00 22.04	H
ATOM 776 HB THR A 50	14.895 -10.119 -22.659 1.00 25.61	H
ATOM 777 HG1 THR A 50	16.880 -10.801 -21.945 1.00 27.33	H
ATOM 778 HG21 THR A 50	15.439 -9.588 -20.438 1.00 27.02	H
ATOM 779 HG22 THR A 50	13.895 -9.901 -20.540 1.00 27.02	H
ATOM 780 HG23 THR A 50	14.883 -10.987 -19.960 1.00 27.02	H
ATOM 781 N ILE A 51	11.775 -12.088 -21.320 1.00 16.33	N
ANISOU 781 N ILE A 51	2076 1716 2414 84 -546 -454	N
ATOM 782 CA ILE A 51	10.396 -11.702 -21.066 1.00 16.61	C
ANISOU 782 CA ILE A 51	2181 1757 2374 185 -556 -485	C
ATOM 783 C ILE A 51	10.397 -10.670 -19.950 1.00 17.95	C
ANISOU 783 C ILE A 51	2378 1881 2560 237 -661 -630	C
ATOM 784 O ILE A 51	10.961 -10.897 -18.874 1.00 17.97	O
ANISOU 784 O ILE A 51	2341 1958 2529 261 -722 -717	O
ATOM 785 CB ILE A 51	9.529 -12.921 -20.707 1.00 17.20	C
ANISOU 785 CB ILE A 51	2236 1987 2312 263 -507 -448	C

ATOM	786	CG1 ILE A 51	9.407 -13.863 -21.905	1.00 17.12	C
ANISOU	786	CG1 ILE A 51	2212 1998 2297 217 -419 -324	C	
ATOM	787	CG2 ILE A 51	8.137 -12.494 -20.294	1.00 17.71	C
ANISOU	787	CG2 ILE A 51	2346 2078 2304 372 -517 -489	C	
ATOM	788	CD1 ILE A 51	10.491 -14.909 -21.971	1.00 16.61	C
ANISOU	788	CD1 ILE A 51	2085 1988 2239 160 -388 -281	C	
ATOM	789	H ILE A 51	12.032 -12.776 -20.873	1.00 19.60	H
ATOM	790	HA ILE A 51	10.027 -11.289 -21.862	1.00 19.93	H
ATOM	791	HB ILE A 51	9.944 -13.398 -19.971	1.00 20.64	H
ATOM	792	HG12 ILE A 51	8.555 -14.323 -21.855	1.00 20.55	H
ATOM	793	HG13 ILE A 51	9.450 -13.340 -22.720	1.00 20.55	H
ATOM	794	HG21 ILE A 51	7.617 -13.283 -20.075	1.00 21.25	H
ATOM	795	HG22 ILE A 51	8.202 -11.914 -19.519	1.00 21.25	H
ATOM	796	HG23 ILE A 51	7.722 -12.017 -21.030	1.00 21.25	H
ATOM	797	HD11 ILE A 51	10.346 -15.464 -22.753	1.00 19.93	H
ATOM	798	HD12 ILE A 51	11.352 -14.466 -22.034	1.00 19.93	H
ATOM	799	HD13 ILE A 51	10.456 -15.451 -21.168	1.00 19.93	H
ATOM	800	N ASN A 52	9.793 -9.521 -20.220	1.00 17.71	N
ANISOU	800	N ASN A 52	2424 1727 2579 263 -688 -661	N	
ATOM	801	CA ASN A 52	9.587 -8.490 -19.221	1.00 19.72	C
ANISOU	801	CA ASN A 52	2726 1926 2841 336 -790 -811	C	
ATOM	802	C ASN A 52	8.130 -8.514 -18.806	1.00 19.85	C
ANISOU	802	C ASN A 52	2786 2029 2726 486 -775 -833	C	
ATOM	803	O ASN A 52	7.244 -8.723 -19.639	1.00 20.14	O
ANISOU	803	O ASN A 52	2842 2077 2734 509 -705 -737	O	
ATOM	804	CB ASN A 52	9.945 -7.104 -19.761	1.00 21.36	C
ANISOU	804	CB ASN A 52	2993 1909 3212 269 -834 -837	C	
ATOM	805	CG ASN A 52	11.342 -7.043 -20.324	1.00 22.67	C
ANISOU	805	CG ASN A 52	3100 1986 3530 106 -824 -790	C	
ATOM	806	OD1 ASN A 52	12.300 -6.784 -19.600	1.00 24.84	O
ANISOU	806	OD1 ASN A 52	3323 2237 3879 53 -908 -895	O	
ATOM	807	ND2 ASN A 52	11.468 -7.275 -21.625	1.00 21.33	N
ANISOU	807	ND2 ASN A 52	2928 1773 3402 32 -723 -634	N	
ATOM	808	H ASN A 52	9.487 -9.312 -20.997	1.00 21.25	H
ATOM	809	HA ASN A 52	10.137 -8.673 -18.443	1.00 23.67	H
ATOM	810	HB2 ASN A 52	9.325 -6.871 -20.469	1.00 25.63	H
ATOM	811	HB3 ASN A 52	9.884 -6.458 -19.040	1.00 25.63	H
ATOM	812	HD21 ASN A 52	12.245 -7.251 -21.992	1.00 25.59	H
ATOM	813	HD22 ASN A 52	10.773 -7.450 -22.100	1.00 25.59	H
ATOM	814	N TYR A 53	7.880 -8.306 -17.518	1.00 19.63	N
ANISOU	814	N TYR A 53	2769 2075 2613 596 -843 -963	N	
ATOM	815	CA TYR A 53	6.509 -8.185 -17.063	1.00 19.23	C
ANISOU	815	CA TYR A 53	2754 2108 2444 749 -825 -993	C	
ATOM	816	C TYR A 53	6.471 -7.340 -15.801	1.00 20.36	C
ANISOU	816	C TYR A 53	2924 2264 2547 847 -912 -1128	C	
ATOM	817	O TYR A 53	7.480 -7.157 -15.114	1.00 21.79	O
ANISOU	817	O TYR A 53	3081 2438 2762 808 -981 -1198	O	
ATOM	818	CB TYR A 53	5.868 -9.564 -16.830	1.00 17.08	C
ANISOU	818	CB TYR A 53	2415 2038 2036 794 -730 -901	C	
ATOM	819	CG TYR A 53	6.332 -10.301 -15.594	1.00 17.20	C
ANISOU	819	CG TYR A 53	2390 2203 1944 843 -746 -948	C	
ATOM	820	CD1 TYR A 53	7.434 -11.143 -15.629	1.00 17.14	C
ANISOU	820	CD1 TYR A 53	2328 2226 1959 748 -739 -900	C	

ATOM	821	CD2 TYR A 53	5.645	-10.176	-14.396	1.00	18.18	C
ANISOU	821	CD2 TYR A 53	2527	2447	1934	998	-760 -1025	C
ATOM	822	CE1 TYR A 53	7.853	-11.823	-14.492	1.00	16.91	C
ANISOU	822	CE1 TYR A 53	2268	2337	1819	812	-758 -935	C
ATOM	823	CE2 TYR A 53	6.051	-10.849	-13.264	1.00	18.76	C
ANISOU	823	CE2 TYR A 53	2561	2660	1906	1049	-758 -1028	C
ATOM	824	CZ TYR A 53	7.151	-11.667	-13.314	1.00	17.95	C
ANISOU	824	CZ TYR A 53	2421	2583	1817	966	-766 -1000	C
ATOM	825	OH TYR A 53	7.530	-12.324	-12.171	1.00	19.60	O
ANISOU	825	OH TYR A 53	2597	2925	1924	1035	-760 -992	O
ATOM	826	H TYR A 53	8.475	-8.233	-16.901	1.00	23.55	H
ATOM	827	HA TYR A 53	5.991	-7.727	-17.744	1.00	23.08	H
ATOM	828	HB2 TYR A 53	4.908	-9.447	-16.755	1.00	20.49	H
ATOM	829	HB3 TYR A 53	6.067	-10.127	-17.594	1.00	20.49	H
ATOM	830	HD1 TYR A 53	7.908	-11.244	-16.423	1.00	20.57	H
ATOM	831	HD2 TYR A 53	4.901	-9.620	-14.353	1.00	21.81	H
ATOM	832	HE1 TYR A 53	8.597	-12.380	-14.526	1.00	20.29	H
ATOM	833	HE2 TYR A 53	5.582	-10.747	-12.467	1.00	22.51	H
ATOM	834	HH TYR A 53	8.210	-12.794	-12.322	1.00	23.51	H
ATOM	835	N ASN A 54	5.292	-6.800	-15.527	1.00	20.29	N
ANISOU	835	N ASN A 54	2948	2289	2471	967	-900 -1141	N
ATOM	836	CA ASN A 54	5.015	-6.133	-14.262	1.00	22.52	C
ANISOU	836	CA ASN A 54	3243	2630	2682	1082	-960 -1238	C
ATOM	837	C ASN A 54	3.627	-6.577	-13.839	1.00	22.18	C
ANISOU	837	C ASN A 54	3179	2758	2490	1221	-888 -1198	C
ATOM	838	O ASN A 54	2.638	-6.258	-14.512	1.00	21.35	O
ANISOU	838	O ASN A 54	3095	2628	2391	1255	-850 -1155	O
ATOM	839	CB ASN A 54	5.096	-4.615	-14.396	1.00	23.60	C
ANISOU	839	CB ASN A 54	3452	2586	2930	1073	-1038 -1309	C
ATOM	840	CG ASN A 54	4.972	-3.906	-13.065	1.00	25.48	C
ANISOU	840	CG ASN A 54	3706	2872	3103	1189	-1117 -1428	C
ATOM	841	OD1 ASN A 54	4.163	-4.284	-12.217	1.00	25.54	O
ANISOU	841	OD1 ASN A 54	3693	3050	2960	1325	-1090 -1435	O
ATOM	842	ND2 ASN A 54	5.799	-2.889	-12.864	1.00	27.17	N
ANISOU	842	ND2 ASN A 54	3954	2937	3433	1134	-1212 -1521	N
ATOM	843	H ASN A 54	4.623	-6.808	-16.067	1.00	24.34	H
ATOM	844	HA ASN A 54	5.653	-6.422	-13.591	1.00	27.02	H
ATOM	845	HB2 ASN A 54	5.953	-4.377	-14.784	1.00	28.32	H
ATOM	846	HB3 ASN A 54	4.376	-4.309	-14.968	1.00	28.32	H
ATOM	847	HD21 ASN A 54	5.770	-2.451	-12.124	1.00	32.61	H
ATOM	848	HD22 ASN A 54	6.364	-2.667	-13.473	1.00	32.61	H
ATOM	849	N ALA A 55	3.562	-7.340	-12.752	1.00	20.94	N
ANISOU	849	N ALA A 55	2974	2778	2204	1298	-863 -1199	N
ATOM	850	CA ALA A 55	2.290	-7.753	-12.169	1.00	21.14	C
ANISOU	850	CA ALA A 55	2966	2977	2090	1426	-788 -1153	C
ATOM	851	C ALA A 55	1.877	-6.665	-11.191	1.00	23.07	C
ANISOU	851	C ALA A 55	3250	3229	2285	1552	-859 -1252	C
ATOM	852	O ALA A 55	2.321	-6.632	-10.042	1.00	24.23	O
ANISOU	852	O ALA A 55	3395	3446	2366	1621	-906 -1315	O
ATOM	853	CB ALA A 55	2.412	-9.108	-11.485	1.00	20.61	C
ANISOU	853	CB ALA A 55	2833	3086	1911	1446	-713 -1083	C
ATOM	854	H ALA A 55	4.250	-7.635	-12.328	1.00	25.13	H
ATOM	855	HA ALA A 55	1.617	-7.816	-12.865	1.00	25.37	H

ATOM	856	HB1	ALA	A	55	1.551	-9.350	-11.110	1.00	24.73		H
ATOM	857	HB2	ALA	A	55	2.686	-9.768	-12.140	1.00	24.73		H
ATOM	858	HB3	ALA	A	55	3.075	-9.047	-10.779	1.00	24.73		H
ATOM	859	N	GLY	A	56	1.035	-5.747	-11.670	1.00	23.57		N
ANISOU	859	N	GLY	A	56	3355	3220	2381	1591	-871	-1269	N
ATOM	860	CA	GLY	A	56	0.529	-4.691	-10.814	1.00	25.48		C
ANISOU	860	CA	GLY	A	56	3641	3469	2572	1721	-936	-1364	C
ATOM	861	C	GLY	A	56	-0.380	-5.212	-9.723	1.00	26.64		C
ANISOU	861	C	GLY	A	56	3739	3835	2548	1865	-876	-1339	C
ATOM	862	O	GLY	A	56	-0.489	-4.601	-8.659	1.00	28.40		O
ANISOU	862	O	GLY	A	56	3989	4103	2698	1987	-935	-1427	O
ATOM	863	H	GLY	A	56	0.748	-5.718	-12.480	1.00	28.29		H
ATOM	864	HA2	GLY	A	56	1.274	-4.229	-10.397	1.00	30.58		H
ATOM	865	HA3	GLY	A	56	0.032	-4.052	-11.348	1.00	30.58		H
ATOM	866	N	VAL	A	57	-1.054	-6.334	-9.972	1.00	25.05		N
ANISOU	866	N	VAL	A	57	3465	3769	2285	1853	-756	-1218	N
ATOM	867	CA	VAL	A	57	-1.858	-7.012	-8.964	1.00	25.74		C
ANISOU	867	CA	VAL	A	57	3494	4066	2221	1964	-674	-1162	C
ATOM	868	C	VAL	A	57	-1.585	-8.503	-9.067	1.00	24.89		C
ANISOU	868	C	VAL	A	57	3316	4054	2089	1885	-573	-1040	C
ATOM	869	O	VAL	A	57	-1.630	-9.076	-10.161	1.00	22.84		O
ANISOU	869	O	VAL	A	57	3025	3749	1904	1772	-518	-967	O
ATOM	870	CB	VAL	A	57	-3.364	-6.736	-9.123	1.00	26.92		C
ANISOU	870	CB	VAL	A	57	3614	4293	2321	2045	-610	-1125	C
ATOM	871	CG1	VAL	A	57	-4.163	-7.494	-8.059	1.00	28.04		C
ANISOU	871	CG1	VAL	A	57	3688	4652	2315	2147	-511	-1052	C
ATOM	872	CG2	VAL	A	57	-3.638	-5.239	-9.020	1.00	27.88		C
ANISOU	872	CG2	VAL	A	57	3815	4315	2463	2134	-711	-1246	C
ATOM	873	H	VAL	A	57	-1.060	-6.728	-10.737	1.00	30.06		H
ATOM	874	HA	VAL	A	57	-1.585	-6.713	-8.082	1.00	30.89		H
ATOM	875	HB	VAL	A	57	-3.656	-7.040	-9.997	1.00	32.30		H
ATOM	876	HG11	VAL	A	57	-5.107	-7.304	-8.179	1.00	33.65		H
ATOM	877	HG12	VAL	A	57	-4.000	-8.444	-8.160	1.00	33.65		H
ATOM	878	HG13	VAL	A	57	-3.876	-7.200	-7.181	1.00	33.65		H
ATOM	879	HG21	VAL	A	57	-4.590	-5.085	-9.123	1.00	33.46		H
ATOM	880	HG22	VAL	A	57	-3.343	-4.924	-8.152	1.00	33.46		H
ATOM	881	HG23	VAL	A	57	-3.150	-4.781	-9.723	1.00	33.46		H
ATOM	882	N	TRP	A	58	-1.308	-9.130	-7.926	1.00	25.05		N
ANISOU	882	N	TRP	A	58	3314	4202	2002	1952	-549	-1017	N
ATOM	883	CA	TRP	A	58	-1.133	-10.580	-7.858	1.00	24.43		C
ANISOU	883	CA	TRP	A	58	3174	4223	1887	1895	-443	-887	C
ATOM	884	C	TRP	A	58	-1.762	-11.041	-6.550	1.00	25.78		C
ANISOU	884	C	TRP	A	58	3313	4576	1907	2027	-373	-827	C
ATOM	885	O	TRP	A	58	-1.155	-10.905	-5.482	1.00	26.76		O
ANISOU	885	O	TRP	A	58	3466	4745	1956	2121	-428	-881	O
ATOM	886	CB	TRP	A	58	0.331	-10.984	-7.939	1.00	24.63		C
ANISOU	886	CB	TRP	A	58	3218	4176	1965	1813	-497	-911	C
ATOM	887	CG	TRP	A	58	0.502	-12.470	-7.846	1.00	24.81		C
ANISOU	887	CG	TRP	A	58	3186	4294	1945	1765	-388	-774	C
ATOM	888	CD1	TRP	A	58	1.199	-13.161	-6.899	1.00	26.84		C
ANISOU	888	CD1	TRP	A	58	3439	4631	2128	1810	-379	-744	C
ATOM	889	CD2	TRP	A	58	-0.065	-13.450	-8.724	1.00	24.82		C
ANISOU	889	CD2	TRP	A	58	3130	4315	1983	1667	-271	-644	C

ATOM	890	NE1 TRP A 58	1.113 -14.515 -7.141 1.00 25.90	N
ANISOU	890	NE1 TRP A 58	3273 4571 1999 1743 -262 -595	N
ATOM	891	CE2 TRP A 58	0.338 -14.717 -8.253 1.00 25.13	C
ANISOU	891	CE2 TRP A 58	3140 4436 1972 1649 -194 -534	C
ATOM	892	CE3 TRP A 58	-0.869 -13.379 -9.867 1.00 24.28	C
ANISOU	892	CE3 TRP A 58	3033 4199 1994 1595 -227 -613	C
ATOM	893	CZ2 TRP A 58	-0.038 -15.900 -8.886 1.00 25.40	C
ANISOU	893	CZ2 TRP A 58	3117 4494 2041 1553 -75 -394	C
ATOM	894	CZ3 TRP A 58	-1.244 -14.554 -10.492 1.00 23.42	C
ANISOU	894	CZ3 TRP A 58	2855 4125 1919 1504 -112 -483	C
ATOM	895	CH2 TRP A 58	-0.824 -15.799 -10.004 1.00 24.07	C
ANISOU	895	CH2 TRP A 58	2910 4277 1959 1477 -37 -376	C
ATOM	896	H TRP A 58	-1.216 -8.734 -7.169 1.00 30.06	H
ATOM	897	HA TRP A 58	-1.608 -10.999 -8.593 1.00 29.32	H
ATOM	898	HB2 TRP A 58	0.698 -10.689 -8.788 1.00 29.56	H
ATOM	899	HB3 TRP A 58	0.817 -10.576 -7.205 1.00 29.56	H
ATOM	900	HD1 TRP A 58	1.669 -12.774 -6.195 1.00 32.21	H
ATOM	901	HE1 TRP A 58	1.479 -15.133 -6.667 1.00 31.09	H
ATOM	902	HE3 TRP A 58	-1.151 -12.557 -10.197 1.00 29.14	H
ATOM	903	HZ2 TRP A 58	0.240 -16.728 -8.565 1.00 30.48	H
ATOM	904	HZ3 TRP A 58	-1.778 -14.518 -11.253 1.00 28.11	H
ATOM	905	HH2 TRP A 58	-1.089 -16.573 -10.445 1.00 28.88	H
ATOM	906	N ALA A 59	-2.977 -11.575 -6.637 1.00 26.15	N
ANISOU	906	N ALA A 59	3294 4725 1916 2035 -249 -716	N
ATOM	907	CA ALA A 59	-3.772 -11.924 -5.457 1.00 28.25	C
ANISOU	907	CA ALA A 59	3526 5161 2047 2163 -166 -647	C
ATOM	908	C ALA A 59	-4.473 -13.253 -5.689 1.00 27.57	C
ANISOU	908	C ALA A 59	3349 5159 1969 2084 -3 -469	C
ATOM	909	O ALA A 59	-5.701 -13.317 -5.823 1.00 27.88	O
ANISOU	909	O ALA A 59	3323 5265 2007 2094 87 -409	O
ATOM	910	CB ALA A 59	-4.783 -10.822 -5.138 1.00 30.13	C
ANISOU	910	CB ALA A 59	3776 5438 2234 2287 -193 -722	C
ATOM	911	H ALA A 59	-3.372 -11.750 -7.381 1.00 31.38	H
ATOM	912	HA ALA A 59	-3.182 -12.022 -4.693 1.00 33.90	H
ATOM	913	HB1 ALA A 59	-5.293 -11.079 -4.355 1.00 36.16	H
ATOM	914	HB2 ALA A 59	-4.305 -9.996 -4.966 1.00 36.16	H
ATOM	915	HB3 ALA A 59	-5.376 -10.709 -5.898 1.00 36.16	H
ATOM	916	N PRO A 60	-3.716 -14.344 -5.744 1.00 27.86	N
ANISOU	916	N PRO A 60	3374 5185 2025 2000 40 -382	N
ATOM	917	CA PRO A 60	-4.332 -15.671 -5.820 1.00 28.79	C
ANISOU	917	CA PRO A 60	3410 5370 2160 1927 197 -206	C
ATOM	918	C PRO A 60	-4.833 -16.142 -4.465 1.00 32.56	C
ANISOU	918	C PRO A 60	3867 5994 2509 2049 287 -112	C
ATOM	919	O PRO A 60	-4.264 -15.826 -3.417 1.00 32.59	O
ANISOU	919	O PRO A 60	3929 6050 2404 2179 227 -164	O
ATOM	920	CB PRO A 60	-3.181 -16.556 -6.308 1.00 26.96	C
ANISOU	920	CB PRO A 60	3194 5058 1990 1811 190 -162	C
ATOM	921	CG PRO A 60	-1.971 -15.907 -5.707 1.00 26.52	C
ANISOU	921	CG PRO A 60	3222 4973 1880 1892 56 -287	C
ATOM	922	CD PRO A 60	-2.244 -14.419 -5.770 1.00 26.82	C
ANISOU	922	CD PRO A 60	3300 4971 1918 1964 -54 -442	C
ATOM	923	HA PRO A 60	-5.055 -15.682 -6.465 1.00 34.55	H
ATOM	924	HB2 PRO A 60	-3.293 -17.460 -5.975 1.00 32.35	H

ATOM	925	HB3 PRO A	60	-3.139	-16.542	-7.277	1.00	32.35		H
ATOM	926	HG2 PRO A	60	-1.867	-16.197	-4.787	1.00	31.82		H
ATOM	927	HG3 PRO A	60	-1.185	-16.134	-6.229	1.00	31.82		H
ATOM	928	HD2 PRO A	60	-1.868	-13.973	-4.996	1.00	32.18		H
ATOM	929	HD3 PRO A	60	-1.901	-14.047	-6.598	1.00	32.18		H
ATOM	930	N ASN A	61	-5.912	-16.924	-4.504	1.00	36.02		N
ANISOU	930	N ASN A	61	4215	6498	2973	2005	434	27	N
ATOM	931	CA ASN A	61	-6.532	-17.496	-3.306	1.00	40.50		C
ANISOU	931	CA ASN A	61	4749	7203	3436	2105	551	146	C
ATOM	932	C ASN A	61	-6.809	-18.967	-3.597	1.00	40.58		C
ANISOU	932	C ASN A	61	4684	7199	3535	1969	697	327	C
ATOM	933	O ASN A	61	-7.921	-19.333	-3.987	1.00	41.49		O
ANISOU	933	O ASN A	61	4699	7336	3730	1896	804	405	O
ATOM	934	CB ASN A	61	-7.806	-16.744	-2.927	1.00	44.12		C
ANISOU	934	CB ASN A	61	5162	7763	3839	2210	588	120	C
ATOM	935	CG ASN A	61	-8.451	-17.288	-1.663	1.00	48.32		C
ANISOU	935	CG ASN A	61	5659	8445	4255	2325	716	245	C
ATOM	936	OD1 ASN A	61	-7.860	-18.103	-0.953	1.00	49.20		O
ANISOU	936	OD1 ASN A	61	5799	8584	4311	2352	759	337	O
ATOM	937	ND2 ASN A	61	-9.669	-16.837	-1.375	1.00	50.33		N
ANISOU	937	ND2 ASN A	61	5851	8800	4473	2402	781	252	N
ATOM	938	H ASN A	61	-6.314	-17.144	-5.232	1.00	43.22		H
ATOM	939	HA ASN A	61	-5.911	-17.441	-2.563	1.00	48.60		H
ATOM	940	HB2 ASN A	61	-7.590	-15.810	-2.776	1.00	52.94		H
ATOM	941	HB3 ASN A	61	-8.448	-16.823	-3.650	1.00	52.94		H
ATOM	942	HD21 ASN A	61	-10.075	-17.115	-0.670	1.00	60.40		H
ATOM	943	HD22 ASN A	61	-10.050	-16.266	-1.894	1.00	60.40		H
ATOM	944	N GLY A	62	-5.795	-19.808	-3.384	1.00	39.28		N
ANISOU	944	N GLY A	62	4564	6994	3365	1937	698	389	N
ATOM	945	CA GLY A	62	-5.837	-21.204	-3.769	1.00	37.58		C
ANISOU	945	CA GLY A	62	4298	6727	3252	1797	813	546	C
ATOM	946	C GLY A	62	-4.691	-21.545	-4.707	1.00	34.61		C
ANISOU	946	C GLY A	62	3965	6219	2965	1678	737	510	C
ATOM	947	O GLY A	62	-3.644	-20.885	-4.703	1.00	32.72		O
ANISOU	947	O GLY A	62	3804	5949	2679	1729	606	388	O
ATOM	948	H GLY A	62	-5.056	-19.580	-3.007	1.00	47.13		H
ATOM	949	HA2 GLY A	62	-5.770	-21.764	-2.979	1.00	45.09		H
ATOM	950	HA3 GLY A	62	-6.675	-21.396	-4.217	1.00	45.09		H
ATOM	951	N TRP A	63	-4.899	-22.574	-5.521	1.00	34.76		N
ANISOU	951	N TRP A	63	3927	6160	3121	1518	817	612	N
ATOM	952	CA TRP A	63	-3.884	-22.940	-6.505	1.00	33.48		C
ANISOU	952	CA TRP A	63	3797	5875	3047	1404	754	584	C
ATOM	953	C TRP A	63	-3.959	-21.951	-7.664	1.00	30.30		C
ANISOU	953	C TRP A	63	3383	5417	2712	1351	660	444	C
ATOM	954	O TRP A	63	-4.792	-22.081	-8.562	1.00	30.74		O
ANISOU	954	O TRP A	63	3356	5439	2885	1250	701	459	O
ATOM	955	CB TRP A	63	-4.059	-24.373	-6.990	1.00	35.75		C
ANISOU	955	CB TRP A	63	4033	6086	3462	1258	863	732	C
ATOM	956	CG TRP A	63	-2.771	-24.937	-7.548	1.00	36.69		C
ANISOU	956	CG TRP A	63	4215	6103	3622	1191	807	730	C
ATOM	957	CD1 TRP A	63	-1.935	-25.833	-6.941	1.00	37.90		C
ANISOU	957	CD1 TRP A	63	4425	6237	3737	1219	830	815	C
ATOM	958	CD2 TRP A	63	-2.166	-24.620	-8.811	1.00	36.22		C

ANISOU	958	CD2 TRP A	63	4165	5953	3642	1100	721	636	C
ATOM	959	NE1 TRP A	63	-0.855	-26.097	-7.751	1.00	36.89		N
ANISOU	959	NE1 TRP A	63	4340	6014	3664	1147	762	778	N
ATOM	960	CE2 TRP A	63	-0.974	-25.366	-8.904	1.00	35.67		C
ANISOU	960	CE2 TRP A	63	4157	5817	3579	1072	698	672	C
ATOM	961	CE3 TRP A	63	-2.522	-23.782	-9.874	1.00	35.78		C
ANISOU	961	CE3 TRP A	63	4073	5868	3654	1049	662	528	C
ATOM	962	CZ2 TRP A	63	-0.136	-25.298	-10.017	1.00	34.19		C
ANISOU	962	CZ2 TRP A	63	3992	5541	3457	990	626	607	C
ATOM	963	CZ3 TRP A	63	-1.688	-23.717	-10.976	1.00	33.92		C
ANISOU	963	CZ3 TRP A	63	3862	5542	3485	972	591	466	C
ATOM	964	CH2 TRP A	63	-0.510	-24.472	-11.040	1.00	33.36		C
ANISOU	964	CH2 TRP A	63	3849	5413	3413	941	578	507	C
ATOM	965	H TRP A	63	-5.603	-23.068	-5.526	1.00	41.71		H
ATOM	966	HA TRP A	63	-3.006	-22.864	-6.100	1.00	40.17		H
ATOM	967	HB2 TRP A	63	-4.337	-24.930	-6.246	1.00	42.89		H
ATOM	968	HB3 TRP A	63	-4.728	-24.394	-7.692	1.00	42.89		H
ATOM	969	HD1 TRP A	63	-2.076	-26.209	-6.103	1.00	45.47		H
ATOM	970	HE1 TRP A	63	-0.211	-26.635	-7.564	1.00	44.27		H
ATOM	971	HE3 TRP A	63	-3.302	-23.278	-9.840	1.00	42.94		H
ATOM	972	HZ2 TRP A	63	0.647	-25.798	-10.063	1.00	41.02		H
ATOM	973	HZ3 TRP A	63	-1.915	-23.163	-11.688	1.00	40.71		H
ATOM	974	HH2 TRP A	63	0.030	-24.408	-11.793	1.00	40.03		H
ATOM	975	N GLY A	64	-3.097	-20.949	-7.622	1.00	26.76		N
ANISOU	975	N GLY A	64	3015	4955	2199	1425	528	304	N
ATOM	976	CA GLY A	64	-2.918	-20.040	-8.737	1.00	23.38		C
ANISOU	976	CA GLY A	64	2597	4448	1839	1377	431	173	C
ATOM	977	C GLY A	64	-1.445	-19.734	-8.882	1.00	22.04		C
ANISOU	977	C GLY A	64	2513	4212	1650	1382	316	80	C
ATOM	978	O GLY A	64	-0.703	-19.687	-7.898	1.00	21.69		O
ANISOU	978	O GLY A	64	2523	4207	1511	1474	273	60	O
ATOM	979	H GLY A	64	-2.595	-20.772	-6.946	1.00	32.11		H
ATOM	980	HA2 GLY A	64	-3.242	-20.447	-9.556	1.00	28.06		H
ATOM	981	HA3 GLY A	64	-3.402	-19.215	-8.578	1.00	28.06		H
ATOM	982	N ALA A	65	-1.022	-19.532	-10.131	1.00	20.16		N
ANISOU	982	N ALA A	65	2278	3873	1510	1285	265	21	N
ATOM	983	CA ALA A	65	0.392	-19.412	-10.448	1.00	20.74		C
ANISOU	983	CA ALA A	65	2416	3874	1589	1260	173	-51	C
ATOM	984	C ALA A	65	0.617	-18.277	-11.435	1.00	19.76		C
ANISOU	984	C ALA A	65	2319	3653	1534	1234	72	-191	C
ATOM	985	O ALA A	65	-0.151	-18.107	-12.383	1.00	20.22		O
ANISOU	985	O ALA A	65	2331	3673	1678	1182	97	-188	O
ATOM	986	CB ALA A	65	0.938	-20.725	-11.029	1.00	20.86		C
ANISOU	986	CB ALA A	65	2412	3848	1665	1151	238	60	C
ATOM	987	H ALA A	65	-1.541	-19.462	-10.813	1.00	24.19		H
ATOM	988	HA ALA A	65	0.885	-19.211	-9.637	1.00	24.88		H
ATOM	989	HB1 ALA A	65	1.880	-20.613	-11.230	1.00	25.03		H
ATOM	990	HB2 ALA A	65	0.820	-21.432	-10.375	1.00	25.03		H
ATOM	991	HB3 ALA A	65	0.449	-20.938	-11.839	1.00	25.03		H
ATOM	992	N LEU A	66	1.669	-17.492	-11.189	1.00	20.28		N
ANISOU	992	N LEU A	66	2457	3671	1578	1268	-49	-314	N
ATOM	993	CA LEU A	66	2.132	-16.455	-12.110	1.00	19.34		C
ANISOU	993	CA LEU A	66	2381	3422	1546	1222	-154	-438	C

ATOM 994 C LEU A 66	3.374 -17.006 -12.797 1.00 17.31	C
ANISOU 994 C LEU A 66	2133 3063 1382 1085 -195 -403	C
ATOM 995 O LEU A 66	4.423 -17.148 -12.161 1.00 17.67	O
ANISOU 995 O LEU A 66	2206 3130 1378 1108 -248 -438	O
ATOM 996 CB LEU A 66	2.437 -15.157 -11.360 1.00 21.09	C
ANISOU 996 CB LEU A 66	2659 3615 1738 1312 -273 -577	C
ATOM 997 CG LEU A 66	3.064 -13.993 -12.131 1.00 20.77	C
ANISOU 997 CG LEU A 66	2676 3413 1804 1259 -393 -704	C
ATOM 998 CD1 LEU A 66	2.101 -13.449 -13.188 1.00 21.11	C
ANISOU 998 CD1 LEU A 66	2716 3385 1921 1241 -371 -705	C
ATOM 999 CD2 LEU A 66	3.493 -12.887 -11.169 1.00 22.34	C
ANISOU 999 CD2 LEU A 66	2917 3582 1988 1338 -504 -827	C
ATOM 1000 H LEU A 66	2.144 -17.545 -10.474 1.00 24.34	H
ATOM 1001 HA LEU A 66	1.453 -16.280 -12.780 1.00 23.21	H
ATOM 1002 HB2 LEU A 66	1.604 -14.829 -10.986 1.00 25.30	H
ATOM 1003 HB3 LEU A 66	3.044 -15.370 -10.634 1.00 25.30	H
ATOM 1004 HG LEU A 66	3.857 -14.312 -12.589 1.00 24.93	H
ATOM 1005 HD11 LEU A 66	2.528 -12.715 -13.657 1.00 25.34	H
ATOM 1006 HD12 LEU A 66	1.884 -14.159 -13.813 1.00 25.34	H
ATOM 1007 HD13 LEU A 66	1.294 -13.137 -12.749 1.00 25.34	H
ATOM 1008 HD21 LEU A 66	3.887 -12.161 -11.678 1.00 26.80	H
ATOM 1009 HD22 LEU A 66	2.714 -12.568 -10.686 1.00 26.80	H
ATOM 1010 HD23 LEU A 66	4.145 -13.246 -10.546 1.00 26.80	H
ATOM 1011 N ALA A 67	3.258 -17.329 -14.087 1.00 15.15	N
ANISOU 1011 N ALA A 67	1832 2691 1235 955 -172 -340	N
ATOM 1012 CA ALA A 67	4.274 -18.150 -14.726 1.00 14.82	C
ANISOU 1012 CA ALA A 67	1785 2583 1265 838 -175 -278	C
ATOM 1013 C ALA A 67	4.353 -17.901 -16.219 1.00 13.57	C
ANISOU 1013 C ALA A 67	1627 2293 1237 721 -196 -269	C
ATOM 1014 O ALA A 67	3.333 -17.718 -16.896 1.00 12.33	O
ANISOU 1014 O ALA A 67	1449 2119 1117 710 -168 -251	O
ATOM 1015 CB ALA A 67	4.001 -19.640 -14.495 1.00 15.53	C
ANISOU 1015 CB ALA A 67	1833 2743 1326 820 -67 -143	C
ATOM 1016 H ALA A 67	2.612 -17.088 -14.601 1.00 18.18	H
ATOM 1017 HA ALA A 67	5.139 -17.939 -14.340 1.00 17.79	H
ATOM 1018 HB1 ALA A 67	4.695 -20.159 -14.932 1.00 18.64	H
ATOM 1019 HB2 ALA A 67	4.007 -19.817 -13.541 1.00 18.64	H
ATOM 1020 HB3 ALA A 67	3.135 -19.864 -14.868 1.00 18.64	H
ATOM 1021 N LEU A 68	5.581 -17.920 -16.724 1.00 13.83	N
ANISOU 1021 N LEU A 68	1676 2246 1333 643 -244 -279	N
ATOM 1022 CA LEU A 68	5.791 -18.083 -18.150 1.00 13.28	C
ANISOU 1022 CA LEU A 68	1604 2076 1366 534 -236 -235	C
ATOM 1023 C LEU A 68	5.341 -19.477 -18.552 1.00 13.32	C
ANISOU 1023 C LEU A 68	1571 2113 1377 492 -153 -130	C
ATOM 1024 O LEU A 68	5.715 -20.467 -17.919 1.00 11.96	O
ANISOU 1024 O LEU A 68	1384 1995 1165 502 -115 -79	O
ATOM 1025 CB LEU A 68	7.257 -17.877 -18.509 1.00 12.65	C
ANISOU 1025 CB LEU A 68	1536 1924 1347 467 -288 -258	C
ATOM 1026 CG LEU A 68	7.574 -17.844 -20.010 1.00 12.33	C
ANISOU 1026 CG LEU A 68	1502 1783 1400 371 -276 -215	C
ATOM 1027 CD1 LEU A 68	7.173 -16.507 -20.629 1.00 12.35	C
ANISOU 1027 CD1 LEU A 68	1545 1694 1451 369 -315 -259	C
ATOM 1028 CD2 LEU A 68	9.056 -18.121 -20.224 1.00 12.17	C

ANISOU 1028 CD2 LEU A 68	1464 1733 1426 309 -292 -207	C
ATOM 1029 H LEU A 68	6.303 -17.841 -16.263 1.00 16.60	H
ATOM 1030 HA LEU A 68	5.258 -17.433 -18.635 1.00 15.94	H
ATOM 1031 HB2 LEU A 68	7.550 -17.033 -18.132 1.00 15.18	H
ATOM 1032 HB3 LEU A 68	7.773 -18.601 -18.120 1.00 15.18	H
ATOM 1033 HG LEU A 68	7.070 -18.544 -20.455 1.00 14.80	H
ATOM 1034 HD11 LEU A 68	7.386 -16.521 -21.575 1.00 14.82	H
ATOM 1035 HD12 LEU A 68	6.219 -16.376 -20.506 1.00 14.82	H
ATOM 1036 HD13 LEU A 68	7.664 -15.796 -20.189 1.00 14.82	H
ATOM 1037 HD21 LEU A 68	9.248 -18.098 -21.175 1.00 14.60	H
ATOM 1038 HD22 LEU A 68	9.574 -17.440 -19.766 1.00 14.60	H
ATOM 1039 HD23 LEU A 68	9.269 -18.996 -19.865 1.00 14.60	H
ATOM 1040 N AVAL A 69	4.536 -19.551 -19.607 0.55 12.75	N
ANISOU 1040 N AVAL A 69	1485 2001 1357 449 -131 -103	N
ATOM 1041 N BVAL A 69	4.507 -19.549 -19.582 0.45 12.80	N
ANISOU 1041 N BVAL A 69	1491 2010 1362 451 -130 -103	N
ATOM 1042 CA AVAL A 69	3.988 -20.804 -20.113 0.55 12.97	C
ANISOU 1042 CA AVAL A 69	1474 2041 1414 399 -68 -25	C
ATOM 1043 CA BVAL A 69	4.007 -20.810 -20.113 0.45 12.94	C
ANISOU 1043 CA BVAL A 69	1470 2036 1410 398 -68 -25	C
ATOM 1044 C AVAL A 69	4.183 -20.818 -21.620 0.55 12.34	C
ANISOU 1044 C AVAL A 69	1411 1874 1403 327 -90 -21	C
ATOM 1045 C BVAL A 69	4.237 -20.803 -21.613 0.45 12.32	C
ANISOU 1045 C BVAL A 69	1411 1871 1401 327 -91 -21	C
ATOM 1046 O AVAL A 69	3.885 -19.828 -22.294 0.55 12.79	O
ANISOU 1046 O AVAL A 69	1491 1890 1477 337 -130 -59	O
ATOM 1047 O BVAL A 69	4.037 -19.780 -22.275 0.45 12.81	O
ANISOU 1047 O BVAL A 69	1498 1888 1480 335 -134 -61	O
ATOM 1048 CB AVAL A 69	2.495 -20.958 -19.759 0.55 13.52	C
ANISOU 1048 CB AVAL A 69	1486 2182 1467 437 -20 -5	C
ATOM 1049 CB BVAL A 69	2.510 -21.025 -19.790 0.45 13.48	C
ANISOU 1049 CB BVAL A 69	1481 2176 1465 432 -18 -2	C
ATOM 1050 CG1AVAL A 69	1.957 -22.299 -20.249 0.55 13.34	C
ANISOU 1050 CG1AVAL A 69	1413 2154 1500 366 38 68	C
ATOM 1051 CG1BVAL A 69	2.280 -21.018 -18.280 0.45 14.10	C
ANISOU 1051 CG1BVAL A 69	1546 2358 1454 521 22 6	C
ATOM 1052 CG2AVAL A 69	2.283 -20.813 -18.256 0.55 14.07	C
ANISOU 1052 CG2AVAL A 69	1547 2354 1445 531 12 -7	C
ATOM 1053 CG2BVAL A 69	1.646 -19.971 -20.471 0.45 13.96	C
ANISOU 1053 CG2BVAL A 69	1539 2219 1547 458 -60 -56	C
ATOM 1054 H AVAL A 69	4.286 -18.865 -20.061 0.55 15.30	H
ATOM 1055 H BVAL A 69	4.208 -18.860 -20.001 0.45 15.36	H
ATOM 1056 HA AVAL A 69	4.476 -21.550 -19.731 0.55 15.56	H
ATOM 1057 HA BVAL A 69	4.512 -21.544 -19.729 0.45 15.53	H
ATOM 1058 HB AVAL A 69	1.992 -20.256 -20.200 0.55 16.22	H
ATOM 1059 HB BVAL A 69	2.239 -21.893 -20.127 0.45 16.18	H
ATOM 1060 HG11AVAL A 69	2.673 -22.784 -20.688 0.55 16.00	H
ATOM 1061 HG11BVAL A 69	3.129 -20.879 -17.832 0.45 16.92	H
ATOM 1062 HG12AVAL A 69	1.631 -22.805 -19.489 0.55 16.00	H
ATOM 1063 HG12BVAL A 69	1.667 -20.300 -18.058 0.45 16.92	H
ATOM 1064 HG13AVAL A 69	1.234 -22.138 -20.875 0.55 16.00	H
ATOM 1065 HG13BVAL A 69	1.902 -21.871 -18.015 0.45 16.92	H
ATOM 1066 HG21AVAL A 69	1.339 -20.914 -18.059 0.55 16.88	H

ATOM	1067	HG21BVAL	A	69	0.716	-20.134	-20.249	0.45	16.75		H	
ATOM	1068	HG22AVAL	A	69	2.792	-21.500	-17.798	0.55	16.88		H	
ATOM	1069	HG22BVAL	A	69	1.912	-19.093	-20.157	0.45	16.75		H	
ATOM	1070	HG23AVAL	A	69	2.588	-19.935	-17.978	0.55	16.88		H	
ATOM	1071	HG23BVAL	A	69	1.772	-20.032	-21.431	0.45	16.75		H	
ATOM	1072	N	GLY	A	70	4.663	-21.938	-22.151	1.00	11.03	N	
ANISOU	1072	N	GLY	A	70	1241	1681	1267	270	-63	27	N
ATOM	1073	CA	GLY	A	70	4.858	-22.027	-23.582	1.00	10.72		C
ANISOU	1073	CA	GLY	A	70	1225	1575	1273	221	-80	28	C
ATOM	1074	C	GLY	A	70	4.933	-23.461	-24.047	1.00	9.43		C
ANISOU	1074	C	GLY	A	70	1050	1394	1140	175	-46	70	C
ATOM	1075	O	GLY	A	70	4.866	-24.401	-23.250	1.00	8.54		O
ANISOU	1075	O	GLY	A	70	913	1306	1026	173	-3	110	O
ATOM	1076	H	GLY	A	70	4.859	-22.649	-21.709	1.00	13.23		H
ATOM	1077	HA2	GLY	A	70	4.120	-21.592	-24.039	1.00	12.86		H
ATOM	1078	HA3	GLY	A	70	5.682	-21.578	-23.827	1.00	12.86		H
ATOM	1079	N	TRP	A	71	5.077	-23.611	-25.368	1.00	9.82		N
ANISOU	1079	N	TRP	A	71	1124	1395	1213	146	-64	60	N
ATOM	1080	CA	TRP	A	71	5.089	-24.914	-26.019	1.00	11.02		C
ANISOU	1080	CA	TRP	A	71	1276	1514	1397	109	-48	75	C
ATOM	1081	C	TRP	A	71	6.125	-24.956	-27.136	1.00	11.74		C
ANISOU	1081	C	TRP	A	71	1418	1564	1480	106	-58	69	C
ATOM	1082	O	TRP	A	71	6.458	-23.939	-27.757	1.00	10.29		O
ANISOU	1082	O	TRP	A	71	1263	1372	1274	121	-77	58	O
ATOM	1083	CB	TRP	A	71	3.730	-25.273	-26.652	1.00	11.73		C
ANISOU	1083	CB	TRP	A	71	1330	1605	1523	90	-68	50	C
ATOM	1084	CG	TRP	A	71	2.587	-25.426	-25.702	1.00	13.98		C
ANISOU	1084	CG	TRP	A	71	1543	1937	1831	85	-43	65	C
ATOM	1085	CD1	TRP	A	71	1.819	-24.429	-25.179	1.00	14.12		C
ANISOU	1085	CD1	TRP	A	71	1527	2014	1825	127	-50	50	C
ATOM	1086	CD2	TRP	A	71	2.052	-26.654	-25.196	1.00	14.02		C
ANISOU	1086	CD2	TRP	A	71	1499	1934	1895	40	3	104	C
ATOM	1087	NE1	TRP	A	71	0.849	-24.954	-24.369	1.00	14.53		N
ANISOU	1087	NE1	TRP	A	71	1502	2113	1907	115	-4	79	N
ATOM	1088	CE2	TRP	A	71	0.970	-26.319	-24.357	1.00	15.08		C
ANISOU	1088	CE2	TRP	A	71	1559	2137	2033	54	33	120	C
ATOM	1089	CE3	TRP	A	71	2.388	-28.001	-25.361	1.00	15.06		C
ANISOU	1089	CE3	TRP	A	71	1642	1998	2080	-8	27	130	C
ATOM	1090	CZ2	TRP	A	71	0.221	-27.279	-23.688	1.00	16.55		C
ANISOU	1090	CZ2	TRP	A	71	1675	2332	2281	12	97	175	C
ATOM	1091	CZ3	TRP	A	71	1.644	-28.957	-24.688	1.00	16.63		C
ANISOU	1091	CZ3	TRP	A	71	1783	2185	2348	-53	82	182	C
ATOM	1092	CH2	TRP	A	71	0.571	-28.588	-23.862	1.00	16.62		C
ANISOU	1092	CH2	TRP	A	71	1701	2260	2355	-49	121	210	C
ATOM	1093	H	TRP	A	71	5.170	-22.954	-25.916	1.00	11.79		H
ATOM	1094	HA	TRP	A	71	5.313	-25.596	-25.368	1.00	13.22		H
ATOM	1095	HB2	TRP	A	71	3.492	-24.574	-27.281	1.00	14.08		H
ATOM	1096	HB3	TRP	A	71	3.827	-26.114	-27.126	1.00	14.08		H
ATOM	1097	HD1	TRP	A	71	1.936	-23.522	-25.348	1.00	16.95		H
ATOM	1098	HE1	TRP	A	71	0.262	-24.501	-23.934	1.00	17.44		H
ATOM	1099	HE3	TRP	A	71	3.099	-28.250	-25.906	1.00	18.07		H
ATOM	1100	HZ2	TRP	A	71	-0.489	-27.038	-23.137	1.00	19.86		H
ATOM	1101	HZ3	TRP	A	71	1.856	-29.857	-24.789	1.00	19.95		H

ATOM 1102	HH2 TRP A 71	0.086 -29.250 -23.423	1.00 19.95	H
ATOM 1103	N THR A 72	6.605 -26.160 -27.402	1.00 11.22	N
ANISOU 1103	N THR A 72	1363 1468 1432	91 -37 82	N
ATOM 1104	CA THR A 72	7.215 -26.496 -28.672	1.00 10.69	C
ANISOU 1104	CA THR A 72	1339 1369 1352	98 -44 66	C
ATOM 1105	C THR A 72	6.444 -27.655 -29.286	1.00 11.93	C
ANISOU 1105	C THR A 72	1499 1488 1544	80 -62 33	C
ATOM 1106	O THR A 72	5.709 -28.375 -28.603	1.00 13.30	O
ANISOU 1106	O THR A 72	1635 1647 1770	47 -53 42	O
ATOM 1107	CB THR A 72	8.697 -26.879 -28.526	1.00 10.32	C
ANISOU 1107	CB THR A 72	1307 1317 1296	114 -9 94	C
ATOM 1108	OG1 THR A 72	8.842 -28.092 -27.767	1.00 11.33	O
ANISOU 1108	OG1 THR A 72	1427 1426 1453	112 14 118	O
ATOM 1109	CG2 THR A 72	9.458 -25.769 -27.851	1.00 11.37	C
ANISOU 1109	CG2 THR A 72	1420 1483 1417	118 -5 113	C
ATOM 1110	H THR A 72	6.587 -26.815 -26.846	1.00 13.46	H
ATOM 1111	HA THR A 72	7.153 -25.735 -29.271	1.00 12.82	H
ATOM 1112	HB THR A 72	9.078 -27.011 -29.408	1.00 12.38	H
ATOM 1113	HG1 THR A 72	8.516 -27.991 -26.999	1.00 13.60	H
ATOM 1114	HG21 THR A 72	10.392 -26.015 -27.761	1.00 13.64	H
ATOM 1115	HG22 THR A 72	9.396 -24.957 -28.378	1.00 13.64	H
ATOM 1116	HG23 THR A 72	9.090 -25.603 -26.970	1.00 13.64	H
ATOM 1117	N ARG A 73	6.586 -27.795 -30.592	1.00 12.64	N
ANISOU 1117	N ARG A 73	1632 1564 1606	103 -88 -7	N
ATOM 1118	CA ARG A 73	6.277 -29.032 -31.288	1.00 13.96	C
ANISOU 1118	CA ARG A 73	1819 1682 1803	97 -114 -57	C
ATOM 1119	C ARG A 73	7.583 -29.637 -31.780	1.00 13.71	C
ANISOU 1119	C ARG A 73	1841 1629 1740	138 -83 -52	C
ATOM 1120	O ARG A 73	8.630 -28.989 -31.776	1.00 13.79	O
ANISOU 1120	O ARG A 73	1862 1675 1705	168 -44 -11	O
ATOM 1121	CB ARG A 73	5.316 -28.799 -32.458	1.00 14.91	C
ANISOU 1121	CB ARG A 73	1949 1816 1900	113 -184 -129	C
ATOM 1122	CG ARG A 73	3.911 -28.386 -32.038	1.00 15.99	C
ANISOU 1122	CG ARG A 73	2016 1979 2082	78 -221 -146	C
ATOM 1123	CD ARG A 73	3.052 -28.099 -33.263	1.00 18.03	C
ANISOU 1123	CD ARG A 73	2281 2264 2304	114 -305 -223	C
ATOM 1124	NE ARG A 73	1.622 -28.033 -32.951	1.00 20.51	N
ANISOU 1124	NE ARG A 73	2506 2604 2683	77 -351 -258	N
ATOM 1125	CZ ARG A 73	0.896 -26.915 -32.896	1.00 21.16	C
ANISOU 1125	CZ ARG A 73	2555 2750 2737	111 -376 -254	C
ATOM 1126	NH1 ARG A 73	1.443 -25.729 -33.121	1.00 21.09	N
ANISOU 1126	NH1 ARG A 73	2606 2767 2641	174 -360 -213	N
ATOM 1127	NH2 ARG A 73	-0.393 -26.984 -32.608	1.00 21.80	N
ANISOU 1127	NH2 ARG A 73	2537 2861 2884	80 -414 -288	N
ATOM 1128	H ARG A 73	6.868 -27.171 -31.112	1.00 15.17	H
ATOM 1129	HA ARG A 73	5.864 -29.655 -30.671	1.00 16.75	H
ATOM 1130	HB2 ARG A 73	5.675 -28.095 -33.020	1.00 17.89	H
ATOM 1131	HB3 ARG A 73	5.242 -29.620 -32.968	1.00 17.89	H
ATOM 1132	HG2 ARG A 73	3.498 -29.106 -31.536	1.00 19.19	H
ATOM 1133	HG3 ARG A 73	3.957 -27.580 -31.500	1.00 19.19	H
ATOM 1134	HD2 ARG A 73	3.316 -27.245 -33.641	1.00 21.63	H
ATOM 1135	HD3 ARG A 73	3.185 -28.805 -33.914	1.00 21.63	H
ATOM 1136	HE ARG A 73	1.217 -28.775 -32.792	1.00 24.61	H

ATOM	1137	HH11	ARG A 73	2.280	-25.670	-33.310	1.00	25.31		H
ATOM	1138	HH12	ARG A 73	0.961	-25.018	-33.080	1.00	25.31		H
ATOM	1139	HH21	ARG A 73	-0.760	-27.747	-32.458	1.00	26.16		H
ATOM	1140	HH22	ARG A 73	-0.864	-26.265	-32.569	1.00	26.16		H
ATOM	1141	N	SER A 74	7.512	-30.902	-32.184	1.00	14.44		N
ANISOU	1141	N	SER A 74	1962	1659	1868	140	-100	-98	N
ATOM	1142	CA	SER A 74	8.670	-31.613	-32.714	1.00	16.41		C
ANISOU	1142	CA	SER A 74	2264	1885	2085	198	-74	-107	C
ATOM	1143	C	SER A 74	9.820	-31.650	-31.707	1.00	15.06		C
ANISOU	1143	C	SER A 74	2074	1728	1919	210	-9	-29	C
ATOM	1144	O	SER A 74	10.917	-31.152	-32.003	1.00	15.21		O
ANISOU	1144	O	SER A 74	2098	1799	1884	255	27	-4	O
ATOM	1145	CB	SER A 74	9.118	-30.964	-34.024	1.00	19.09		C
ANISOU	1145	CB	SER A 74	2648	2282	2323	266	-78	-134	C
ATOM	1146	OG	SER A 74	10.084	-31.761	-34.682	1.00	21.17		O
ANISOU	1146	OG	SER A 74	2963	2531	2549	336	-55	-158	O
ATOM	1147	H	SER A 74	6.794	-31.375	-32.162	1.00	17.33		H
ATOM	1148	HA	SER A 74	8.415	-32.529	-32.908	1.00	19.69		H
ATOM	1149	HB2	SER A 74	8.348	-30.859	-34.603	1.00	22.91		H
ATOM	1150	HB3	SER A 74	9.506	-30.096	-33.828	1.00	22.91		H
ATOM	1151	HG	SER A 74	10.758	-31.860	-34.191	1.00	25.40		H
ATOM	1152	N	PRO A 75	9.622	-32.244	-30.511	1.00	14.40		N
ANISOU	1152	N	PRO A 75	1966	1606	1901	175	8	14	N
ATOM	1153	CA	PRO A 75	8.366	-32.855	-30.058	1.00	14.62		C
ANISOU	1153	CA	PRO A 75	1973	1571	2009	111	-13	6	C
ATOM	1154	C	PRO A 75	7.459	-31.896	-29.300	1.00	12.72		C
ANISOU	1154	C	PRO A 75	1670	1388	1774	64	-13	37	C
ATOM	1155	O	PRO A 75	7.848	-30.774	-28.979	1.00	11.00		O
ANISOU	1155	O	PRO A 75	1434	1243	1501	83	-2	63	O
ATOM	1156	CB	PRO A 75	8.835	-33.979	-29.113	1.00	14.95		C
ANISOU	1156	CB	PRO A 75	2030	1548	2103	118	31	65	C
ATOM	1157	CG	PRO A 75	10.333	-33.770	-28.919	1.00	15.51		C
ANISOU	1157	CG	PRO A 75	2114	1670	2108	193	64	100	C
ATOM	1158	CD	PRO A 75	10.688	-32.454	-29.515	1.00	14.07		C
ANISOU	1158	CD	PRO A 75	1910	1580	1855	205	55	80	C
ATOM	1159	HA	PRO A 75	7.883	-33.239	-30.806	1.00	17.54		H
ATOM	1160	HB2	PRO A 75	8.369	-33.905	-28.266	1.00	17.94		H
ATOM	1161	HB3	PRO A 75	8.662	-34.840	-29.523	1.00	17.94		H
ATOM	1162	HG2	PRO A 75	10.536	-33.773	-27.970	1.00	18.61		H
ATOM	1163	HG3	PRO A 75	10.816	-34.482	-29.367	1.00	18.61		H
ATOM	1164	HD2	PRO A 75	10.663	-31.757	-28.840	1.00	16.88		H
ATOM	1165	HD3	PRO A 75	11.554	-32.500	-29.950	1.00	16.88		H
ATOM	1166	N	LEU A 76	6.254	-32.380	-29.018	1.00	12.34		N
ANISOU	1166	N	LEU A 76	1585	1299	1803	4	-25	30	N
ATOM	1167	CA	LEU A 76	5.273	-31.645	-28.231	1.00	12.06		C
ANISOU	1167	CA	LEU A 76	1480	1321	1780	-32	-16	60	C
ATOM	1168	C	LEU A 76	5.682	-31.623	-26.760	1.00	11.39		C
ANISOU	1168	C	LEU A 76	1380	1267	1682	-18	50	153	C
ATOM	1169	O	LEU A 76	5.717	-32.667	-26.102	1.00	11.00		O
ANISOU	1169	O	LEU A 76	1338	1159	1684	-33	94	209	O
ATOM	1170	CB	LEU A 76	3.903	-32.294	-28.392	1.00	13.32		C
ANISOU	1170	CB	LEU A 76	1586	1433	2041	-104	-40	28	C
ATOM	1171	CG	LEU A 76	2.722	-31.618	-27.708	1.00	12.37		C

ANISOU 1171 CG LEU A 76	1376	1380	1942	-137	-28	52	C
ATOM 1172 CD1 LEU A 76	2.434	-30.275	-28.345	1.00	12.97		C
ANISOU 1172 CD1 LEU A 76	1443	1539	1945	-96	-82	-2	C
ATOM 1173 CD2 LEU A 76	1.502	-32.533	-27.757	1.00	14.63		C
ANISOU 1173 CD2 LEU A 76	1590	1608	2360	-223	-36	34	C
ATOM 1174 H LEU A 76	5.976	-33.152	-29.277	1.00	14.80		H
ATOM 1175 HA LEU A 76	5.220	-30.730	-28.551	1.00	14.47		H
ATOM 1176 HB2 LEU A 76	3.698	-32.333	-29.339	1.00	15.98		H
ATOM 1177 HB3 LEU A 76	3.955	-33.197	-28.040	1.00	15.98		H
ATOM 1178 HG LEU A 76	2.944	-31.465	-26.776	1.00	14.84		H
ATOM 1179 HD11 LEU A 76	1.679	-29.867	-27.892	1.00	15.56		H
ATOM 1180 HD12 LEU A 76	3.217	-29.710	-28.258	1.00	15.56		H
ATOM 1181 HD13 LEU A 76	2.224	-30.409	-29.282	1.00	15.56		H
ATOM 1182 HD21 LEU A 76	0.759	-32.090	-27.319	1.00	17.55		H
ATOM 1183 HD22 LEU A 76	1.281	-32.713	-28.684	1.00	17.55		H
ATOM 1184 HD23 LEU A 76	1.711	-33.362	-27.299	1.00	17.55		H
ATOM 1185 N ILE A 77	5.977	-30.433	-26.247	1.00	10.98		N
ANISOU 1185 N ILE A 77	1313	1299	1558	16	53	167	N
ATOM 1186 CA ILE A 77	6.420	-30.248	-24.871	1.00	11.63		C
ANISOU 1186 CA ILE A 77	1385	1431	1602	50	97	235	C
ATOM 1187 C ILE A 77	5.828	-28.943	-24.368	1.00	12.13		C
ANISOU 1187 C ILE A 77	1409	1577	1623	63	85	221	C
ATOM 1188 O ILE A 77	5.844	-27.928	-25.075	1.00	11.90		O
ANISOU 1188 O ILE A 77	1385	1566	1569	70	41	168	O
ATOM 1189 CB ILE A 77	7.961	-30.222	-24.757	1.00	12.49		C
ANISOU 1189 CB ILE A 77	1532	1552	1661	104	98	245	C
ATOM 1190 CG1 ILE A 77	8.576	-31.514	-25.319	1.00	13.06		C
ANISOU 1190 CG1 ILE A 77	1648	1543	1770	112	109	251	C
ATOM 1191 CG2 ILE A 77	8.401	-29.991	-23.304	1.00	13.73		C
ANISOU 1191 CG2 ILE A 77	1675	1774	1766	152	123	299	C
ATOM 1192 CD1 ILE A 77	10.025	-31.377	-25.632	1.00	13.95		C
ANISOU 1192 CD1 ILE A 77	1782	1678	1840	166	103	241	C
ATOM 1193 H ILE A 77	5.928	-29.698	-26.691	1.00	13.17		H
ATOM 1194 HA ILE A 77	6.082	-30.973	-24.321	1.00	13.95		H
ATOM 1195 HB ILE A 77	8.287	-29.480	-25.290	1.00	14.99		H
ATOM 1196 HG12 ILE A 77	8.477	-32.222	-24.664	1.00	15.67		H
ATOM 1197 HG13 ILE A 77	8.114	-31.753	-26.138	1.00	15.67		H
ATOM 1198 HG21 ILE A 77	9.370	-29.980	-23.267	1.00	16.47		H
ATOM 1199 HG22 ILE A 77	8.048	-29.141	-23.000	1.00	16.47		H
ATOM 1200 HG23 ILE A 77	8.056	-30.710	-22.752	1.00	16.47		H
ATOM 1201 HD11 ILE A 77	10.353	-32.221	-25.981	1.00	16.74		H
ATOM 1202 HD12 ILE A 77	10.140	-30.678	-26.294	1.00	16.74		H
ATOM 1203 HD13 ILE A 77	10.502	-31.147	-24.820	1.00	16.74		H
ATOM 1204 N ALA A 78	5.307	-28.972	-23.146	1.00	11.99		N
ANISOU 1204 N ALA A 78	1359	1607	1592	78	129	273	N
ATOM 1205 CA ALA A 78	4.898	-27.769	-22.434	1.00	12.41		C
ANISOU 1205 CA ALA A 78	1384	1745	1587	117	121	257	C
ATOM 1206 C ALA A 78	5.962	-27.405	-21.408	1.00	11.87		C
ANISOU 1206 C ALA A 78	1342	1728	1442	183	122	273	C
ATOM 1207 O ALA A 78	6.552	-28.287	-20.774	1.00	12.04		O
ANISOU 1207 O ALA A 78	1381	1744	1448	208	157	332	O
ATOM 1208 CB ALA A 78	3.555	-27.977	-21.731	1.00	12.93		C
ANISOU 1208 CB ALA A 78	1387	1852	1673	107	172	298	C

ATOM	1209	H	ALA A 78	5.177	-29.695	-22.699	1.00	14.39	H
ATOM	1210	HA	ALA A 78	4.809	-27.034	-23.060	1.00	14.89	H
ATOM	1211	HB1	ALA A 78	3.312	-27.161	-21.267	1.00	15.51	H
ATOM	1212	HB2	ALA A 78	2.882	-28.194	-22.395	1.00	15.51	H
ATOM	1213	HB3	ALA A 78	3.641	-28.706	-21.096	1.00	15.51	H
ATOM	1214	N	TYR A 79	6.204	-26.106	-21.237	1.00	9.88	N
ANISOU	1214	N	TYR A 79	1092	1519	1144	217	76	217
ATOM	1215	CA	TYR A 79	7.160	-25.646	-20.245	1.00	10.69	C
ANISOU	1215	CA	TYR A 79	1208	1673	1179	278	55	206
ATOM	1216	C	TYR A 79	6.580	-24.487	-19.440	1.00	12.06	C
ANISOU	1216	C	TYR A 79	1371	1914	1297	332	32	160
ATOM	1217	O	TYR A 79	5.671	-23.774	-19.888	1.00	11.27	O
ANISOU	1217	O	TYR A 79	1258	1808	1218	320	20	124
ATOM	1218	CB	TYR A 79	8.489	-25.252	-20.898	1.00	10.57	C
ANISOU	1218	CB	TYR A 79	1210	1623	1182	262	5	165
ATOM	1219	CG	TYR A 79	8.418	-24.086	-21.832	1.00	10.44	C
ANISOU	1219	CG	TYR A 79	1199	1568	1198	228	-37	107
ATOM	1220	CD1	TYR A 79	8.377	-22.784	-21.347	1.00	10.46	C
ANISOU	1220	CD1	TYR A 79	1203	1592	1181	254	-82	49
ATOM	1221	CD2	TYR A 79	8.403	-24.273	-23.207	1.00	9.86	C
ANISOU	1221	CD2	TYR A 79	1140	1435	1171	180	-33	109
ATOM	1222	CE1	TYR A 79	8.319	-21.716	-22.195	1.00	9.76	C
ANISOU	1222	CE1	TYR A 79	1130	1450	1128	226	-115	11
ATOM	1223	CE2	TYR A 79	8.338	-23.209	-24.065	1.00	9.43	C
ANISOU	1223	CE2	TYR A 79	1101	1347	1133	162	-63	75
ATOM	1224	CZ	TYR A 79	8.307	-21.925	-23.561	1.00	10.69	C
ANISOU	1224	CZ	TYR A 79	1263	1513	1285	181	-100	33
ATOM	1225	OH	TYR A 79	8.239	-20.840	-24.414	1.00	10.95	O
ANISOU	1225	OH	TYR A 79	1322	1494	1343	166	-124	13
ATOM	1226	H	TYR A 79	5.826	-25.475	-21.683	1.00	11.86	H
ATOM	1227	HA	TYR A 79	7.340	-26.373	-19.628	1.00	12.82	H
ATOM	1228	HB2	TYR A 79	9.121	-25.025	-20.197	1.00	12.68	H
ATOM	1229	HB3	TYR A 79	8.822	-26.010	-21.402	1.00	12.68	H
ATOM	1230	HD1	TYR A 79	8.391	-22.638	-20.428	1.00	12.56	H
ATOM	1231	HD2	TYR A 79	8.429	-25.136	-23.552	1.00	11.83	H
ATOM	1232	HE1	TYR A 79	8.291	-20.850	-21.855	1.00	11.71	H
ATOM	1233	HE2	TYR A 79	8.329	-23.350	-24.984	1.00	11.31	H
ATOM	1234	HH	TYR A 79	8.238	-21.101	-25.212	1.00	13.13	H
ATOM	1235	N	TYR A 80	7.131	-24.321	-18.235	1.00	13.69	N
ANISOU	1235	N	TYR A 80	1586	2189	1425	406	21	154
ATOM	1236	CA	TYR A 80	6.618	-23.397	-17.232	1.00	14.52	C
ANISOU	1236	CA	TYR A 80	1690	2373	1454	486	3	107
ATOM	1237	C	TYR A 80	7.783	-22.828	-16.428	1.00	14.20	C
ANISOU	1237	C	TYR A 80	1670	2373	1354	547	-70	41
ATOM	1238	O	TYR A 80	8.638	-23.583	-15.954	1.00	15.02	O
ANISOU	1238	O	TYR A 80	1778	2505	1424	576	-68	79
ATOM	1239	CB	TYR A 80	5.638	-24.097	-16.271	1.00	16.36	C
ANISOU	1239	CB	TYR A 80	1903	2688	1624	542	91	187
ATOM	1240	CG	TYR A 80	4.600	-24.950	-16.952	1.00	16.93	C
ANISOU	1240	CG	TYR A 80	1938	2719	1777	467	166	262
ATOM	1241	CD1	TYR A 80	4.892	-26.256	-17.333	1.00	17.34	C
ANISOU	1241	CD1	TYR A 80	1994	2709	1886	410	210	341
ATOM	1242	CD2	TYR A 80	3.332	-24.461	-17.216	1.00	17.50	C

ANISOU 1242 CD2 TYR A 80	1963 2810 1874 457 184 243	C
ATOM 1243 CE1 TYR A 80	3.957 -27.040 -17.967 1.00 17.77	C
ANISOU 1243 CE1 TYR A 80	2010 2711 2032 332 263 391	C
ATOM 1244 CE2 TYR A 80	2.387 -25.246 -17.850 1.00 18.62	C
ANISOU 1244 CE2 TYR A 80	2053 2917 2104 381 238 297	C
ATOM 1245 CZ TYR A 80	2.703 -26.531 -18.218 1.00 19.30	C
ANISOU 1245 CZ TYR A 80	2145 2932 2256 313 274 367	C
ATOM 1246 OH TYR A 80	1.762 -27.312 -18.852 1.00 21.67	O
ANISOU 1246 OH TYR A 80	2390 3185 2661 229 313 403	O
ATOM 1247 H TYR A 80	7.828 -24.751 -17.972 1.00 16.42	H
ATOM 1248 HA TYR A 80	6.155 -22.665 -17.669 1.00 17.42	H
ATOM 1249 HB2 TYR A 80	6.145 -24.670 -15.675 1.00 19.63	H
ATOM 1250 HB3 TYR A 80	5.171 -23.421 -15.756 1.00 19.63	H
ATOM 1251 HD1 TYR A 80	5.740 -26.601 -17.167 1.00 20.81	H
ATOM 1252 HD2 TYR A 80	3.115 -23.591 -16.971 1.00 21.00	H
ATOM 1253 HE1 TYR A 80	4.168 -27.911 -18.217 1.00 21.33	H
ATOM 1254 HE2 TYR A 80	1.539 -24.906 -18.024 1.00 22.34	H
ATOM 1255 HH TYR A 80	1.046 -26.882 -18.942 1.00 26.01	H
ATOM 1256 N VAL A 81	7.813 -21.509 -16.258 1.00 12.15	N
ANISOU 1256 N VAL A 81	1420 2112 1085 572 -142 -62	N
ATOM 1257 CA VAL A 81	8.727 -20.865 -15.312 1.00 12.89	C
ANISOU 1257 CA VAL A 81	1525 2252 1121 640 -227 -149	C
ATOM 1258 C VAL A 81	7.842 -20.123 -14.317 1.00 14.15	C
ANISOU 1258 C VAL A 81	1703 2488 1183 747 -237 -207	C
ATOM 1259 O VAL A 81	7.287 -19.068 -14.638 1.00 13.92	O
ANISOU 1259 O VAL A 81	1687 2414 1189 743 -270 -278	O
ATOM 1260 CB VAL A 81	9.721 -19.922 -15.998 1.00 13.67	C
ANISOU 1260 CB VAL A 81	1618 2259 1316 568 -315 -235	C
ATOM 1261 CG1 VAL A 81	10.633 -19.244 -14.972 1.00 13.97	C
ANISOU 1261 CG1 VAL A 81	1655 2343 1311 630 -419 -345	C
ATOM 1262 CG2 VAL A 81	10.537 -20.686 -17.051 1.00 13.82	C
ANISOU 1262 CG2 VAL A 81	1613 2218 1419 475 -286 -169	C
ATOM 1263 H VAL A 81	7.309 -20.957 -16.683 1.00 14.58	H
ATOM 1264 HA VAL A 81	9.228 -21.543 -14.833 1.00 15.47	H
ATOM 1265 HB VAL A 81	9.225 -19.226 -16.457 1.00 16.40	H
ATOM 1266 HG11 VAL A 81	11.248 -18.656 -15.437 1.00 16.77	H
ATOM 1267 HG12 VAL A 81	10.087 -18.732 -14.356 1.00 16.77	H
ATOM 1268 HG13 VAL A 81	11.126 -19.926 -14.490 1.00 16.77	H
ATOM 1269 HG21 VAL A 81	11.159 -20.074 -17.473 1.00 16.58	H
ATOM 1270 HG22 VAL A 81	11.022 -21.404 -16.614 1.00 16.58	H
ATOM 1271 HG23 VAL A 81	9.931 -21.052 -17.714 1.00 16.58	H
ATOM 1272 N VAL A 82	7.704 -20.673 -13.112 1.00 14.46	N
ANISOU 1272 N VAL A 82	1751 2648 1094 857 -204 -173	N
ATOM 1273 CA VAL A 82	6.778 -20.157 -12.106 1.00 16.35	C
ANISOU 1273 CA VAL A 82	2007 2988 1216 982 -187 -209	C
ATOM 1274 C VAL A 82	7.521 -19.180 -11.200 1.00 17.22	C
ANISOU 1274 C VAL A 82	2149 3137 1255 1075 -309 -357	C
ATOM 1275 O VAL A 82	8.495 -19.557 -10.538 1.00 17.39	O
ANISOU 1275 O VAL A 82	2170 3186 1253 1105 -340 -365	O
ATOM 1276 CB VAL A 82	6.166 -21.300 -11.282 1.00 18.01	C
ANISOU 1276 CB VAL A 82	2211 3314 1318 1059 -66 -75	C
ATOM 1277 CG1 VAL A 82	5.183 -20.749 -10.230 1.00 19.61	C
ANISOU 1277 CG1 VAL A 82	2414 3616 1420 1187 -32 -101	C

ATOM	1278	CG2 VAL A 82	5.470	-22.300	-12.184	1.00	17.40	C
ANISOU	1278	CG2 VAL A 82	2093	3174	1343	947	44 58	C
ATOM	1279	H VAL A 82	8.146	-21.362	-12.848	1.00	17.35	H
ATOM	1280	HA VAL A 82	6.059	-19.679	-12.547	1.00	19.62	H
ATOM	1281	HB VAL A 82	6.876	-21.765	-10.813	1.00	21.61	H
ATOM	1282	HG11 VAL A 82	4.813	-21.491	-9.725	1.00	23.53	H
ATOM	1283	HG12 VAL A 82	5.662	-20.151	-9.635	1.00	23.53	H
ATOM	1284	HG13 VAL A 82	4.473	-20.269	-10.682	1.00	23.53	H
ATOM	1285	HG21 VAL A 82	5.094	-23.008	-11.638	1.00	20.88	H
ATOM	1286	HG22 VAL A 82	4.764	-21.847	-12.671	1.00	20.88	H
ATOM	1287	HG23 VAL A 82	6.118	-22.668	-12.805	1.00	20.88	H
ATOM	1288	N ASP A 83	7.050	-17.932	-11.153	1.00	18.06	N
ANISOU	1288	N ASP A 83	2276	3209	1378	1106	-364 -473	N
ATOM	1289	CA ASP A 83	7.651	-16.897	-10.316	1.00	20.07	C
ANISOU	1289	CA ASP A 83	2550	3444	1632	1169	-471 -615	C
ATOM	1290	C ASP A 83	6.918	-16.685	-9.001	1.00	21.26	C
ANISOU	1290	C ASP A 83	2709	3699	1670	1324	-442 -628	C
ATOM	1291	O ASP A 83	7.555	-16.353	-7.995	1.00	22.87	O
ANISOU	1291	O ASP A 83	2923	3934	1832	1404	-510 -707	O
ATOM	1292	CB ASP A 83	7.704	-15.560	-11.068	1.00	20.70	C
ANISOU	1292	CB ASP A 83	2652	3389	1823	1106	-565 -736	C
ATOM	1293	CG ASP A 83	9.037	-15.322	-11.765	1.00	20.37	C
ANISOU	1293	CG ASP A 83	2595	3239	1905	982	-657 -786	C
ATOM	1294	OD1 ASP A 83	9.951	-16.156	-11.607	1.00	20.75	O
ANISOU	1294	OD1 ASP A 83	2610	3328	1945	956	-655 -740	O
ATOM	1295	OD2 ASP A 83	9.179	-14.283	-12.453	1.00	19.99	O
ANISOU	1295	OD2 ASP A 83	2566	3061	1970	913	-727 -866	O
ATOM	1296	H ASP A 83	6.372	-17.658	-11.606	1.00	21.68	H
ATOM	1297	HA ASP A 83	8.562	-17.156	-10.108	1.00	24.08	H
ATOM	1298	HB2 ASP A 83	7.008	-15.550	-11.743	1.00	24.84	H
ATOM	1299	HB3 ASP A 83	7.564	-14.837	-10.437	1.00	24.84	H
ATOM	1300	N SER A 84	5.598	-16.854	-8.978	1.00	19.98	N
ANISOU	1300	N SER A 84	2536	3597	1459	1370	-347 -552	N
ATOM	1301	CA SER A 84	4.848	-16.732	-7.738	1.00	19.81	C
ANISOU	1301	CA SER A 84	2512	3687	1327	1517	-313 -539	C
ATOM	1302	C SER A 84	3.622	-17.622	-7.825	1.00	19.63	C
ANISOU	1302	C SER A 84	2450	3745	1265	1518	-167 -379	C
ATOM	1303	O SER A 84	3.286	-18.154	-8.891	1.00	18.39	O
ANISOU	1303	O SER A 84	2268	3545	1175	1408	-102 -304	O
ATOM	1304	CB SER A 84	4.439	-15.281	-7.457	1.00	21.11	C
ANISOU	1304	CB SER A 84	2706	3818	1498	1589	-403 -677	C
ATOM	1305	OG SER A 84	3.914	-15.157	-6.139	1.00	22.47	O
ANISOU	1305	OG SER A 84	2880	4109	1548	1746	-388 -675	O
ATOM	1306	H SER A 84	5.117	-17.039	-9.666	1.00	23.98	H
ATOM	1307	HA SER A 84	5.396	-17.042	-7.000	1.00	23.77	H
ATOM	1308	HB2 SER A 84	5.219	-14.711	-7.543	1.00	25.34	H
ATOM	1309	HB3 SER A 84	3.760	-15.014	-8.096	1.00	25.34	H
ATOM	1310	HG SER A 84	3.693	-14.360	-5.993	1.00	26.96	H
ATOM	1311	N TRP A 85	2.937	-17.751	-6.694	1.00	22.59	N
ANISOU	1311	N TRP A 85	2816	4232	1536	1640	-115 -329	N
ATOM	1312	CA TRP A 85	1.761	-18.599	-6.606	1.00	23.69	C
ANISOU	1312	CA TRP A 85	2908	4445	1647	1636	29 -169	C
ATOM	1313	C TRP A 85	1.005	-18.248	-5.332	1.00	25.92	C

ANISOU 1313 C TRP A 85	3191 4845 1812 1791 53 -163	C
ATOM 1314 O TRP A 85	1.464 -17.453 -4.507 1.00 28.80	O
ANISOU 1314 O TRP A 85	3595 5237 2110 1908 -44 -280	O
ATOM 1315 CB TRP A 85	2.150 -20.080 -6.619 1.00 23.43	C
ANISOU 1315 CB TRP A 85	2859 4419 1623 1576 122 -16	C
ATOM 1316 CG TRP A 85	3.033 -20.462 -5.472 1.00 24.45	C
ANISOU 1316 CG TRP A 85	3020 4604 1663 1680 97 -11	C
ATOM 1317 CD1 TRP A 85	2.638 -20.951 -4.255 1.00 27.12	C
ANISOU 1317 CD1 TRP A 85	3358 5048 1896 1801 168 78	C
ATOM 1318 CD2 TRP A 85	4.461 -20.367 -5.421 1.00 24.80	C
ANISOU 1318 CD2 TRP A 85	3099 4607 1717 1680 -6 -104	C
ATOM 1319 NE1 TRP A 85	3.738 -21.170 -3.451 1.00 28.16	N
ANISOU 1319 NE1 TRP A 85	3526 5209 1963 1887 112 43	N
ATOM 1320 CE2 TRP A 85	4.868 -20.823 -4.145 1.00 26.94	C
ANISOU 1320 CE2 TRP A 85	3388 4967 1881 1810 5 -72	C
ATOM 1321 CE3 TRP A 85	5.437 -19.946 -6.330 1.00 24.35	C
ANISOU 1321 CE3 TRP A 85	3055 4448 1749 1581 -103 -209	C
ATOM 1322 CZ2 TRP A 85	6.207 -20.866 -3.761 1.00 27.55	C
ANISOU 1322 CZ2 TRP A 85	3490 5037 1940 1843 -82 -150	C
ATOM 1323 CZ3 TRP A 85	6.765 -19.991 -5.945 1.00 24.71	C
ANISOU 1323 CZ3 TRP A 85	3121 4484 1786 1600 -187 -281	C
ATOM 1324 CH2 TRP A 85	7.139 -20.446 -4.671 1.00 26.33	C
ANISOU 1324 CH2 TRP A 85	3338 4782 1883 1732 -178 -256	C
ATOM 1325 H TRP A 85	3.137 -17.352 -5.958 1.00 27.11	H
ATOM 1326 HA TRP A 85	1.181 -18.427 -7.364 1.00 28.42	H
ATOM 1327 HB2 TRP A 85	1.344 -20.618 -6.568 1.00 28.12	H
ATOM 1328 HB3 TRP A 85	2.626 -20.274 -7.441 1.00 28.12	H
ATOM 1329 HD1 TRP A 85	1.756 -21.111 -4.006 1.00 32.54	H
ATOM 1330 HE1 TRP A 85	3.718 -21.479 -2.648 1.00 33.79	H
ATOM 1331 HE3 TRP A 85	5.198 -19.642 -7.175 1.00 29.22	H
ATOM 1332 HZ2 TRP A 85	6.457 -21.168 -2.918 1.00 33.06	H
ATOM 1333 HZ3 TRP A 85	7.423 -19.713 -6.542 1.00 29.66	H
ATOM 1334 HH2 TRP A 85	8.040 -20.466 -4.441 1.00 31.59	H
ATOM 1335 N GLY A 86	-0.167 -18.856 -5.183 1.00 33.21	N
ANISOU 1335 N GLY A 86	3618 5050 3950 2020 1365 1400	N
ATOM 1336 CA GLY A 86	-0.946 -18.693 -3.973 1.00 35.92	C
ANISOU 1336 CA GLY A 86	4038 5399 4212 2270 1670 1603	C
ATOM 1337 C GLY A 86	-0.600 -19.769 -2.972 1.00 37.18	C
ANISOU 1337 C GLY A 86	4293 5505 4328 2291 1822 1707	C
ATOM 1338 O GLY A 86	0.386 -19.650 -2.238 1.00 37.23	O
ANISOU 1338 O GLY A 86	4648 5469 4030 2407 1790 1597	O
ATOM 1339 H GLY A 86	-0.529 -19.368 -5.771 1.00 39.85	H
ATOM 1340 HA2 GLY A 86	-0.764 -17.826 -3.578 1.00 43.10	H
ATOM 1341 HA3 GLY A 86	-1.892 -18.750 -4.180 1.00 43.10	H
ATOM 1342 N THR A 87	-1.398 -20.832 -2.943 1.00 39.67	N
ANISOU 1342 N THR A 87	4312 5805 4957 2171 1961 1908	N
ATOM 1343 CA THR A 87	-1.127 -22.010 -2.129 1.00 41.63	C
ANISOU 1343 CA THR A 87	4620 5978 5217 2164 2106 2019	C
ATOM 1344 C THR A 87	-0.888 -23.180 -3.071 1.00 41.53	C
ANISOU 1344 C THR A 87	4308 5966 5507 1855 1994 1993	C
ATOM 1345 O THR A 87	-1.785 -23.564 -3.829 1.00 42.37	O
ANISOU 1345 O THR A 87	4051 6071 5976 1665 1956 2075	O
ATOM 1346 CB THR A 87	-2.288 -22.301 -1.172 1.00 45.50	C

ANISOU 1346	CB THR A 87	5061	6397	5831	2307	2389	2297	C
ATOM 1347	OG1 THR A 87	-2.490	-21.174	-0.306	1.00	47.29		O
ANISOU 1347	OG1 THR A 87	5596	6611	5760	2612	2482	2330	O
ATOM 1348	CG2 THR A 87	-2.004	-23.536	-0.327	1.00	46.79		C
ANISOU 1348	CG2 THR A 87	5309	6455	6014	2327	2539	2409	C
ATOM 1349	H THR A 87	-2.124	-20.895	-3.400	1.00	47.61		H
ATOM 1350	HA THR A 87	-0.323	-21.865	-1.605	1.00	49.95		H
ATOM 1351	HB THR A 87	-3.095	-22.461	-1.685	1.00	54.60		H
ATOM 1352	HG1 THR A 87	-2.672	-20.491	-0.761	1.00	56.74		H
ATOM 1353	HG21 THR A 87	-2.747	-23.706	0.272	1.00	56.15		H
ATOM 1354	HG22 THR A 87	-1.878	-24.308	-0.901	1.00	56.15		H
ATOM 1355	HG23 THR A 87	-1.200	-23.400	0.199	1.00	56.15		H
ATOM 1356	N ALA A 88	0.320	-23.734	-3.035	1.00	41.21		N
ANISOU 1356	N ALA A 88	4437	5912	5309	1797	1908	1871	N
ATOM 1357	CA ALA A 88	0.675	-24.837	-3.916	1.00	41.88		C
ANISOU 1357	CA ALA A 88	4349	5938	5624	1468	1721	1811	C
ATOM 1358	C ALA A 88	1.895	-25.547	-3.353	1.00	42.69		C
ANISOU 1358	C ALA A 88	4733	5988	5498	1475	1697	1738	C
ATOM 1359	O ALA A 88	2.863	-24.899	-2.948	1.00	41.83		O
ANISOU 1359	O ALA A 88	4940	5897	5055	1607	1584	1580	O
ATOM 1360	CB ALA A 88	0.967	-24.347	-5.337	1.00	39.36		C
ANISOU 1360	CB ALA A 88	3953	5632	5371	1247	1356	1592	C
ATOM 1361	H ALA A 88	0.953	-23.487	-2.508	1.00	49.45		H
ATOM 1362	HA ALA A 88	-0.059	-25.470	-3.953	1.00	50.25		H
ATOM 1363	HB1 ALA A 88	1.199	-25.108	-5.892	1.00	47.23		H
ATOM 1364	HB2 ALA A 88	0.175	-23.909	-5.689	1.00	47.23		H
ATOM 1365	HB3 ALA A 88	1.707	-23.720	-5.309	1.00	47.23		H
ATOM 1366	N ARG A 89	1.844	-26.874	-3.333	1.00	45.06		N
ANISOU 1366	N ARG A 89	4914	6214	5992	1332	1792	1851	N
ATOM 1367	CA ARG A 89	2.988	-27.690	-2.947	1.00	46.16		C
ANISOU 1367	CA ARG A 89	5290	6301	5947	1322	1756	1790	C
ATOM 1368	C ARG A 89	3.568	-28.283	-4.219	1.00	44.41		C
ANISOU 1368	C ARG A 89	4974	6027	5874	1002	1461	1637	C
ATOM 1369	O ARG A 89	2.875	-28.999	-4.949	1.00	47.26		O
ANISOU 1369	O ARG A 89	5069	6323	6565	782	1445	1707	O
ATOM 1370	CB ARG A 89	2.624	-28.813	-1.973	1.00	49.37		C
ANISOU 1370	CB ARG A 89	5705	6629	6426	1419	2082	2022	C
ATOM 1371	CG ARG A 89	1.346	-28.643	-1.152	1.00	52.66		C
ANISOU 1371	CG ARG A 89	6040	6989	6977	1591	2315	2208	C
ATOM 1372	CD ARG A 89	1.565	-27.938	0.190	1.00	53.65		C
ANISOU 1372	CD ARG A 89	6522	7115	6748	1963	2417	2213	C
ATOM 1373	NE ARG A 89	2.741	-28.402	0.923	1.00	52.39		N
ANISOU 1373	NE ARG A 89	6684	6923	6300	2092	2366	2116	N
ATOM 1374	CZ ARG A 89	3.168	-27.856	2.058	1.00	53.05		C
ANISOU 1374	CZ ARG A 89	7103	6989	6065	2405	2370	2064	C
ATOM 1375	NH1 ARG A 89	2.510	-26.839	2.594	1.00	54.12		N
ANISOU 1375	NH1 ARG A 89	7327	7124	6112	2622	2445	2118	N
ATOM 1376	NH2 ARG A 89	4.251	-28.326	2.662	1.00	52.97		N
ANISOU 1376	NH2 ARG A 89	7343	6951	5833	2506	2281	1955	N
ATOM 1377	H ARG A 89	1.147	-27.333	-3.542	1.00	54.07		H
ATOM 1378	HA ARG A 89	3.662	-27.129	-2.532	1.00	55.39		H
ATOM 1379	HB2 ARG A 89	2.528	-29.633	-2.483	1.00	59.25		H
ATOM 1380	HB3 ARG A 89	3.355	-28.914	-1.344	1.00	59.25		H

ATOM	1381	HG2 ARG A	89	0.713	-28.116	-1.664	1.00	63.19		H
ATOM	1382	HG3 ARG A	89	0.973	-29.519	-0.969	1.00	63.19		H
ATOM	1383	HD2 ARG A	89	1.673	-26.988	0.029	1.00	64.38		H
ATOM	1384	HD3 ARG A	89	0.789	-28.090	0.752	1.00	64.38		H
ATOM	1385	HE ARG A	89	3.124	-29.123	0.654	1.00	62.87		H
ATOM	1386	HH11 ARG A	89	1.809	-26.528	2.205	1.00	64.94		H
ATOM	1387	HH12 ARG A	89	2.786	-26.488	3.329	1.00	64.94		H
ATOM	1388	HH21 ARG A	89	4.680	-28.988	2.320	1.00	63.56		H
ATOM	1389	HH22 ARG A	89	4.520	-27.973	3.398	1.00	63.56		H
ATOM	1390	N TRP A	90	4.825	-27.984	-4.484	1.00	39.86		N
ANISOU	1390	N TRP A	90	4616	5466	5064	985	1227	1433	N
ATOM	1391	CA TRP A	90	5.489	-28.495	-5.667	1.00	36.70		C
ANISOU	1391	CA TRP A	90	4179	5008	4757	733	976	1296	C
ATOM	1392	C TRP A	90	6.059	-29.870	-5.344	1.00	39.48		C
ANISOU	1392	C TRP A	90	4612	5280	5109	686	1060	1366	C
ATOM	1393	O TRP A	90	6.743	-30.042	-4.328	1.00	39.19		O
ANISOU	1393	O TRP A	90	4789	5265	4838	873	1162	1391	O
ATOM	1394	CB TRP A	90	6.554	-27.501	-6.118	1.00	32.04		C
ANISOU	1394	CB TRP A	90	3757	4461	3955	746	727	1076	C
ATOM	1395	CG TRP A	90	5.943	-26.122	-6.251	1.00	30.18		C
ANISOU	1395	CG TRP A	90	3484	4290	3692	835	694	1029	C
ATOM	1396	CD1 TRP A	90	6.066	-25.076	-5.379	1.00	30.56		C
ANISOU	1396	CD1 TRP A	90	3706	4396	3511	1060	747	996	C
ATOM	1397	CD2 TRP A	90	5.081	-25.668	-7.301	1.00	28.43		C
ANISOU	1397	CD2 TRP A	90	3059	4073	3670	720	599	1011	C
ATOM	1398	NE1 TRP A	90	5.346	-23.992	-5.834	1.00	29.61		N
ANISOU	1398	NE1 TRP A	90	3506	4310	3435	1090	714	967	N
ATOM	1399	CE2 TRP A	90	4.732	-24.331	-7.011	1.00	28.45		C
ANISOU	1399	CE2 TRP A	90	3118	4142	3550	890	623	979	C
ATOM	1400	CE3 TRP A	90	4.580	-26.256	-8.466	1.00	27.61		C
ANISOU	1400	CE3 TRP A	90	2756	3913	3820	505	475	1009	C
ATOM	1401	CZ2 TRP A	90	3.906	-23.578	-7.846	1.00	27.16		C
ANISOU	1401	CZ2 TRP A	90	2802	4005	3512	861	546	960	C
ATOM	1402	CZ3 TRP A	90	3.758	-25.501	-9.295	1.00	26.76		C
ANISOU	1402	CZ3 TRP A	90	2498	3835	3835	477	366	977	C
ATOM	1403	CH2 TRP A	90	3.430	-24.183	-8.978	1.00	26.31		C
ANISOU	1403	CH2 TRP A	90	2484	3858	3653	658	413	960	C
ATOM	1404	H TRP A	90	5.321	-27.482	-3.991	1.00	47.83		H
ATOM	1405	HA TRP A	90	4.841	-28.594	-6.382	1.00	44.04		H
ATOM	1406	HB2 TRP A	90	7.264	-27.462	-5.457	1.00	38.44		H
ATOM	1407	HB3 TRP A	90	6.905	-27.768	-6.981	1.00	38.44		H
ATOM	1408	HD1 TRP A	90	6.565	-25.092	-4.595	1.00	36.68		H
ATOM	1409	HE1 TRP A	90	5.289	-23.229	-5.441	1.00	35.53		H
ATOM	1410	HE3 TRP A	90	4.794	-27.134	-8.683	1.00	33.13		H
ATOM	1411	HZ2 TRP A	90	3.687	-22.698	-7.640	1.00	32.59		H
ATOM	1412	HZ3 TRP A	90	3.417	-25.883	-10.071	1.00	32.11		H
ATOM	1413	HH2 TRP A	90	2.877	-23.702	-9.552	1.00	31.57		H
ATOM	1414	N THR A	91	5.712	-30.854	-6.173	1.00	41.83		N
ANISOU	1414	N THR A	91	4754	5473	5666	454	1018	1402	N
ATOM	1415	CA THR A	91	6.057	-32.249	-5.945	1.00	42.84		C
ANISOU	1415	CA THR A	91	4946	5492	5840	391	1126	1491	C
ATOM	1416	C THR A	91	6.330	-32.910	-7.287	1.00	39.22		C
ANISOU	1416	C THR A	91	4448	4923	5530	133	897	1386	C

ATOM 1417 O THR A 91	5.721 -32.560 -8.299 1.00 41.08	O
ANISOU 1417 O THR A 91	4525 5140 5945 -19 722 1316	O
ATOM 1418 CB THR A 91	4.924 -32.996 -5.211 1.00 47.22	C
ANISOU 1418 CB THR A 91	5343 5976 6622 408 1442 1737	C
ATOM 1419 OG1 THR A 91	4.798 -32.495 -3.875 1.00 48.91	O
ANISOU 1419 OG1 THR A 91	5674 6273 6637 707 1695 1852	O
ATOM 1420 CG2 THR A 91	5.183 -34.497 -5.150 1.00 47.92	C
ANISOU 1420 CG2 THR A 91	5487 5911 6807 302 1550 1830	C
ATOM 1421 H THR A 91	5.263 -30.730 -6.896 1.00 50.19	H
ATOM 1422 HA THR A 91	6.861 -32.301 -5.406 1.00 51.41	H
ATOM 1423 HB THR A 91	4.090 -32.852 -5.684 1.00 56.66	H
ATOM 1424 HG1 THR A 91	4.181 -32.900 -3.473 1.00 58.69	H
ATOM 1425 HG21 THR A 91	4.457 -34.940 -4.684 1.00 57.50	H
ATOM 1426 HG22 THR A 91	5.248 -34.858 -6.048 1.00 57.50	H
ATOM 1427 HG23 THR A 91	6.013 -34.671 -4.679 1.00 57.50	H
ATOM 1428 N GLY A 92	7.253 -33.866 -7.290 1.00 33.23	N
ANISOU 1428 N GLY A 92	3862 4089 4676 111 897 1376	N
ATOM 1429 CA GLY A 92	7.498 -34.689 -8.452 1.00 29.09	C
ANISOU 1429 CA GLY A 92	3356 3426 4272 -101 728 1304	C
ATOM 1430 C GLY A 92	8.980 -34.864 -8.707 1.00 25.51	C
ANISOU 1430 C GLY A 92	3138 2979 3574 -41 623 1199	C
ATOM 1431 O GLY A 92	9.826 -34.549 -7.868 1.00 23.42	O
ANISOU 1431 O GLY A 92	3003 2817 3078 149 683 1195	O
ATOM 1432 H GLY A 92	7.755 -34.056 -6.618 1.00 39.88	H
ATOM 1433 HA2 GLY A 92	7.101 -35.565 -8.322 1.00 34.91	H
ATOM 1434 HA3 GLY A 92	7.096 -34.279 -9.233 1.00 34.91	H
ATOM 1435 N THR A 93	9.294 -35.386 -9.895 1.00 23.87	N
ANISOU 1435 N THR A 93	2991 2651 3426 -193 454 1114	N
ATOM 1436 CA THR A 93	10.682 -35.622 -10.262 1.00 22.25	C
ANISOU 1436 CA THR A 93	2992 2436 3024 -133 379 1039	C
ATOM 1437 C THR A 93	11.445 -34.304 -10.299 1.00 19.80	C
ANISOU 1437 C THR A 93	2699 2275 2547 -18 268 925	C
ATOM 1438 O THR A 93	10.989 -33.320 -10.892 1.00 19.18	O
ANISOU 1438 O THR A 93	2531 2236 2522 -62 146 841	O
ATOM 1439 CB THR A 93	10.770 -36.334 -11.616 1.00 22.99	C
ANISOU 1439 CB THR A 93	3177 2356 3201 -290 228 974	C
ATOM 1440 OG1 THR A 93	10.182 -37.635 -11.506 1.00 26.89	O
ANISOU 1440 OG1 THR A 93	3682 2681 3853 -406 325 1074	O
ATOM 1441 CG2 THR A 93	12.226 -36.491 -12.055 1.00 21.83	C
ANISOU 1441 CG2 THR A 93	3235 2202 2856 -197 182 919	C
ATOM 1442 H THR A 93	8.723 -35.610 -10.498 1.00 28.64	H
ATOM 1443 HA THR A 93	11.095 -36.191 -9.594 1.00 26.70	H
ATOM 1444 HB THR A 93	10.297 -35.818 -12.287 1.00 27.58	H
ATOM 1445 HG1 THR A 93	9.376 -37.568 -11.280 1.00 32.26	H
ATOM 1446 HG21 THR A 93	12.266 -36.942 -12.913 1.00 26.19	H
ATOM 1447 HG22 THR A 93	12.642 -35.619 -12.139 1.00 26.19	H
ATOM 1448 HG23 THR A 93	12.715 -37.013 -11.401 1.00 26.19	H
ATOM 1449 N TYR A 94	12.623 -34.312 -9.678 1.00 19.14	N
ANISOU 1449 N TYR A 94	2732 2265 2276 130 304 924	N
ATOM 1450 CA TYR A 94	13.408 -33.124 -9.380 1.00 18.26	C
ANISOU 1450 CA TYR A 94	2625 2286 2025 246 215 831	C
ATOM 1451 C TYR A 94	14.793 -33.279 -9.985 1.00 19.09	C
ANISOU 1451 C TYR A 94	2824 2373 2057 267 129 779	C

ATOM 1452 O TYR A 94	15.478 -34.279 -9.734 1.00 18.43	O
ANISOU 1452 O TYR A 94	2836 2256 1909 326 198 847	O
ATOM 1453 CB TYR A 94	13.509 -32.917 -7.864 1.00 20.26	C
ANISOU 1453 CB TYR A 94	2911 2652 2135 433 319 884	C
ATOM 1454 CG TYR A 94	14.548 -31.910 -7.459 1.00 19.64	C
ANISOU 1454 CG TYR A 94	2871 2683 1908 552 190 777	C
ATOM 1455 CD1 TYR A 94	14.369 -30.564 -7.726 1.00 18.44	C
ANISOU 1455 CD1 TYR A 94	2657 2577 1771 530 77 669	C
ATOM 1456 CD2 TYR A 94	15.709 -32.303 -6.800 1.00 20.94	C
ANISOU 1456 CD2 TYR A 94	3129 2895 1931 688 169 784	C
ATOM 1457 CE1 TYR A 94	15.318 -29.635 -7.362 1.00 18.97	C
ANISOU 1457 CE1 TYR A 94	2755 2713 1740 612 -56 563	C
ATOM 1458 CE2 TYR A 94	16.666 -31.371 -6.424 1.00 20.98	C
ANISOU 1458 CE2 TYR A 94	3140 2987 1844 776 9 676	C
ATOM 1459 CZ TYR A 94	16.460 -30.041 -6.713 1.00 20.24	C
ANISOU 1459 CZ TYR A 94	2984 2916 1791 724 -103 563	C
ATOM 1460 OH TYR A 94	17.393 -29.101 -6.348 1.00 21.51	O
ANISOU 1460 OH TYR A 94	3146 3132 1895 784 -274 448	O
ATOM 1461 H TYR A 94	13.003 -35.035 -9.408 1.00 22.97	H
ATOM 1462 HA TYR A 94	12.983 -32.345 -9.772 1.00 21.91	H
ATOM 1463 HB2 TYR A 94	12.651 -32.608 -7.533 1.00 24.31	H
ATOM 1464 HB3 TYR A 94	13.737 -33.763 -7.448 1.00 24.31	H
ATOM 1465 HD1 TYR A 94	13.600 -30.283 -8.168 1.00 22.12	H
ATOM 1466 HD2 TYR A 94	15.846 -33.203 -6.609 1.00 25.12	H
ATOM 1467 HE1 TYR A 94	15.184 -28.734 -7.549 1.00 22.76	H
ATOM 1468 HE2 TYR A 94	17.440 -31.642 -5.986 1.00 25.18	H
ATOM 1469 HH TYR A 94	18.040 -29.472 -5.962 1.00 25.81	H
ATOM 1470 N LYS A 95	15.210 -32.283 -10.767 1.00 18.81	N
ANISOU 1470 N LYS A 95	2759 2352 2035 237 1 675	N
ATOM 1471 CA LYS A 95	16.407 -32.391 -11.584 1.00 20.52	C
ANISOU 1471 CA LYS A 95	3040 2522 2234 245 -49 649	C
ATOM 1472 C LYS A 95	17.560 -31.511 -11.127 1.00 20.12	C
ANISOU 1472 C LYS A 95	2941 2573 2131 338 -115 596	C
ATOM 1473 O LYS A 95	18.702 -31.776 -11.510 1.00 21.52	O
ANISOU 1473 O LYS A 95	3140 2729 2309 377 -119 616	O
ATOM 1474 CB LYS A 95	16.073 -32.036 -13.042 1.00 22.21	C
ANISOU 1474 CB LYS A 95	3281 2630 2528 145 -122 590	C
ATOM 1475 CG LYS A 95	15.196 -33.053 -13.734 1.00 24.70	C
ANISOU 1475 CG LYS A 95	3671 2807 2908 44 -118 623	C
ATOM 1476 CD LYS A 95	15.924 -34.368 -13.880 1.00 26.74	C
ANISOU 1476 CD LYS A 95	4076 2968 3115 76 -42 698	C
ATOM 1477 CE LYS A 95	15.263 -35.267 -14.881 1.00 28.34	C
ANISOU 1477 CE LYS A 95	4410 2984 3376 -28 -85 696	C
ATOM 1478 NZ LYS A 95	15.958 -36.570 -14.900 1.00 29.77	N
ANISOU 1478 NZ LYS A 95	4764 3059 3490 20 12 776	N
ATOM 1479 H LYS A 95	14.808 -31.526 -10.840 1.00 22.57	H
ATOM 1480 HA LYS A 95	16.713 -33.311 -11.566 1.00 24.62	H
ATOM 1481 HB2 LYS A 95	15.608 -31.185 -13.057 1.00 26.65	H
ATOM 1482 HB3 LYS A 95	16.900 -31.968 -13.544 1.00 26.65	H
ATOM 1483 HG2 LYS A 95	14.396 -33.203 -13.206 1.00 29.64	H
ATOM 1484 HG3 LYS A 95	14.963 -32.731 -14.618 1.00 29.64	H
ATOM 1485 HD2 LYS A 95	16.831 -34.198 -14.178 1.00 32.08	H
ATOM 1486 HD3 LYS A 95	15.933 -34.824 -13.024 1.00 32.08	H

ATOM 1487	HE2 LYS A 95	14.338 -35.412 -14.629	1.00 34.01	H
ATOM 1488	HE3 LYS A 95	15.321 -34.871 -15.764	1.00 34.01	H
ATOM 1489	HZ1 LYS A 95	15.573 -37.111 -15.492	1.00 35.73	H
ATOM 1490	HZ2 LYS A 95	16.812 -36.456 -15.125	1.00 35.73	H
ATOM 1491	HZ3 LYS A 95	15.920 -36.947 -14.094	1.00 35.73	H
ATOM 1492	N GLY A 96	17.304 -30.490 -10.339	1.00 18.21	N
ANISOU 1492	N GLY A 96	2636 2426 1857 378 -169 534		N
ATOM 1493	CA GLY A 96	18.342 -29.573 -9.940	1.00 17.13	C
ANISOU 1493	CA GLY A 96	2451 2357 1702 437 -276 459		C
ATOM 1494	C GLY A 96	17.782 -28.177 -9.854	1.00 16.80	C
ANISOU 1494	C GLY A 96	2369 2338 1674 411 -349 359		C
ATOM 1495	O GLY A 96	16.575 -27.985 -9.739	1.00 16.49	O
ANISOU 1495	O GLY A 96	2337 2306 1624 396 -302 366		O
ATOM 1496	H GLY A 96	16.528 -30.305 -10.018	1.00 21.85	H
ATOM 1497	HA2 GLY A 96	18.693 -29.826 -9.072	1.00 20.56	H
ATOM 1498	HA3 GLY A 96	19.063 -29.585 -10.589	1.00 20.56	H
ATOM 1499	N THR A 97	18.670 -27.195 -9.941	1.00 17.58	N
ANISOU 1499	N THR A 97	2418 2440 1821 405 -456 276		N
ATOM 1500	CA THR A 97	18.298 -25.805 -9.745	1.00 17.73	C
ANISOU 1500	CA THR A 97	2430 2466 1842 394 -532 171		C
ATOM 1501	C THR A 97	18.925 -24.964 -10.855	1.00 16.50	C
ANISOU 1501	C THR A 97	2220 2219 1831 304 -562 124		C
ATOM 1502	O THR A 97	19.882 -25.384 -11.514	1.00 16.73	O
ANISOU 1502	O THR A 97	2203 2199 1954 277 -536 172		O
ATOM 1503	CB THR A 97	18.755 -25.306 -8.358	1.00 19.83	C
ANISOU 1503	CB THR A 97	2724 2806 2003 502 -656 97		C
ATOM 1504	OG1 THR A 97	20.181 -25.435 -8.286	1.00 21.54	O
ANISOU 1504	OG1 THR A 97	2864 3025 2293 502 -764 80		O
ATOM 1505	CG2 THR A 97	18.036 -26.079 -7.132	1.00 20.45	C
ANISOU 1505	CG2 THR A 97	2907 2966 1898 648 -585 162		C
ATOM 1506	H THR A 97	19.504 -27.311 -10.115	1.00 21.09	H
ATOM 1507	HA THR A 97	17.334 -25.717 -9.801	1.00 21.28	H
ATOM 1508	HB THR A 97	18.528 -24.366 -8.281	1.00 23.79	H
ATOM 1509	HG1 THR A 97	20.456 -25.169 -7.538	1.00 25.84	H
ATOM 1510	HG21 THR A 97	18.356 -25.729 -6.286	1.00 24.54	H
ATOM 1511	HG22 THR A 97	17.075 -25.955 -7.181	1.00 24.54	H
ATOM 1512	HG23 THR A 97	18.234 -27.028 -7.177	1.00 24.54	H
ATOM 1513	N VAL A 98	18.364 -23.775 -11.072	1.00 15.70	N
ANISOU 1513	N VAL A 98	2136 2084 1744 277 -586 47		N
ATOM 1514	CA VAL A 98	18.955 -22.773 -11.957	1.00 16.07	C
ANISOU 1514	CA VAL A 98	2152 2029 1924 210 -598 0		C
ATOM 1515	C VAL A 98	18.812 -21.404 -11.308	1.00 16.52	C
ANISOU 1515	C VAL A 98	2236 2078 1963 218 -694 -117		C
ATOM 1516	O VAL A 98	17.778 -21.087 -10.709	1.00 15.42	O
ANISOU 1516	O VAL A 98	2172 1991 1697 281 -696 -148		O
ATOM 1517	CB VAL A 98	18.313 -22.778 -13.361	1.00 15.44	C
ANISOU 1517	CB VAL A 98	2125 1864 1876 177 -494 42		C
ATOM 1518	CG1 VAL A 98	16.810 -22.642 -13.275	1.00 16.24	C
ANISOU 1518	CG1 VAL A 98	2278 2009 1883 202 -484 30		C
ATOM 1519	CG2 VAL A 98	18.914 -21.664 -14.234	1.00 17.26	C
ANISOU 1519	CG2 VAL A 98	2355 1973 2231 140 -467 10		C
ATOM 1520	H VAL A 98	17.626 -23.521 -10.710	1.00 18.84	H
ATOM 1521	HA VAL A 98	19.901 -22.960 -12.059	1.00 19.28	H

ATOM	1522	HB	VAL A 98	18.509	-23.626	-13.789	1.00	18.52	H
ATOM	1523	HG11	VAL A 98	16.441	-22.649	-14.172	1.00	19.49	H
ATOM	1524	HG12	VAL A 98	16.455	-23.387	-12.765	1.00	19.49	H
ATOM	1525	HG13	VAL A 98	16.594	-21.805	-12.834	1.00	19.49	H
ATOM	1526	HG21	VAL A 98	18.495	-21.689	-15.108	1.00	20.71	H
ATOM	1527	HG22	VAL A 98	18.747	-20.807	-13.811	1.00	20.71	H
ATOM	1528	HG23	VAL A 98	19.869	-21.811	-14.320	1.00	20.71	H
ATOM	1529	N	LYS A 99	19.860	-20.600	-11.409	1.00	18.59	N
ANISOU	1529	N	LYS A 99	2436	2262	2367	160	-765 -176	N
ATOM	1530	CA	LYS A 99	19.822	-19.224	-10.941	1.00	21.18	C
ANISOU	1530	CA	LYS A 99	2812	2533	2704	147	-864 -300	C
ATOM	1531	C	LYS A 99	19.550	-18.308	-12.126	1.00	20.30	C
ANISOU	1531	C	LYS A 99	2733	2292	2687	94	-754 -299	C
ATOM	1532	O	LYS A 99	20.201	-18.423	-13.168	1.00	19.75	O
ANISOU	1532	O	LYS A 99	2600	2134	2770	40	-656 -229	O
ATOM	1533	CB	LYS A 99	21.131	-18.840	-10.253	1.00	25.43	C
ANISOU	1533	CB	LYS A 99	3255	3037	3371	98	-1043 -379	C
ATOM	1534	CG	LYS A 99	21.367	-19.548	-8.927	1.00	29.43	C
ANISOU	1534	CG	LYS A 99	3777	3668	3736	194	-1193 -407	C
ATOM	1535	CD	LYS A 99	22.592	-18.999	-8.220	1.00	34.02	C
ANISOU	1535	CD	LYS A 99	4270	4207	4448	150	-1436 -518	C
ATOM	1536	CE	LYS A 99	22.927	-19.786	-6.965	1.00	37.19	C
ANISOU	1536	CE	LYS A 99	4704	4735	4693	280	-1603 -543	C
ATOM	1537	NZ	LYS A 99	24.203	-19.301	-6.343	1.00	41.78	N
ANISOU	1537	NZ	LYS A 99	5171	5273	5430	230	-1864 -650	N
ATOM	1538	H	LYS A 99	20.615	-20.832	-11.750	1.00	22.31	H
ATOM	1539	HA	LYS A 99	19.099	-19.121	-10.303	1.00	25.42	H
ATOM	1540	HB2	LYS A 99	21.870	-19.061	-10.842	1.00	30.52	H
ATOM	1541	HB3	LYS A 99	21.124	-17.885	-10.080	1.00	30.52	H
ATOM	1542	HG2	LYS A 99	20.598	-19.416	-8.351	1.00	35.31	H
ATOM	1543	HG3	LYS A 99	21.507	-20.494	-9.089	1.00	35.31	H
ATOM	1544	HD2	LYS A 99	23.353	-19.047	-8.819	1.00	40.82	H
ATOM	1545	HD3	LYS A 99	22.425	-18.078	-7.964	1.00	40.82	H
ATOM	1546	HE2	LYS A 99	22.212	-19.678	-6.318	1.00	44.63	H
ATOM	1547	HE3	LYS A 99	23.035	-20.722	-7.193	1.00	44.63	H
ATOM	1548	HZ1	LYS A 99	24.382	-19.773	-5.610	1.00	50.14	H
ATOM	1549	HZ2	LYS A 99	24.876	-19.393	-6.918	1.00	50.14	H
ATOM	1550	HZ3	LYS A 99	24.126	-18.442	-6.122	1.00	50.14	H
ATOM	1551	N	SER A 100	18.587	-17.405	-11.966	1.00	19.61	N
ANISOU	1551	N	SER A 100	2765	2190	2495	140	-750 -363	N
ATOM	1552	CA	SER A 100	18.228	-16.502	-13.044	1.00	18.83	C
ANISOU	1552	CA	SER A 100	2729	1973	2452	126	-643 -361	C
ATOM	1553	C	SER A 100	17.467	-15.319	-12.468	1.00	18.56	C
ANISOU	1553	C	SER A 100	2829	1916	2309	186	-683 -459	C
ATOM	1554	O	SER A 100	16.608	-15.491	-11.602	1.00	18.20	O
ANISOU	1554	O	SER A 100	2845	1982	2090	283	-715 -473	O
ATOM	1555	CB	SER A 100	17.379	-17.225	-14.096	1.00	17.49	C
ANISOU	1555	CB	SER A 100	2586	1837	2223	170	-520 -262	C
ATOM	1556	OG	SER A 100	17.300	-16.467	-15.287	1.00	17.51	O
ANISOU	1556	OG	SER A 100	2662	1709	2283	178	-417 -248	O
ATOM	1557	H	SER A 100	18.130	-17.298	-11.246	1.00	23.53	H
ATOM	1558	HA	SER A 100	19.034	-16.172	-13.471	1.00	22.59	H
ATOM	1559	HB2	SER A 100	17.785	-18.083	-14.295	1.00	20.99	H

ATOM 1560	HB3 SER A 100	16.484 -17.354 -13.745	1.00 20.99	H
ATOM 1561	HG SER A 100	16.950 -15.720 -15.130	1.00 21.02	H
ATOM 1562	N ASP A 101	17.803 -14.123 -12.949	1.00 20.27	N
ANISOU 1562	N ASP A 101	3100 1972 2629	141 -655 -512	N
ATOM 1563	CA ASP A 101	17.053 -12.902 -12.650	1.00 20.88	C
ANISOU 1563	CA ASP A 101	3341 1991 2601	213 -657 -594	C
ATOM 1564	C ASP A 101	16.902 -12.694 -11.147	1.00 21.97	C
ANISOU 1564	C ASP A 101	3565 2189 2594	275 -811 -695	C
ATOM 1565	O ASP A 101	15.820 -12.403 -10.636	1.00 21.83	O
ANISOU 1565	O ASP A 101	3676 2237 2382	414 -783 -705	O
ATOM 1566	CB ASP A 101	15.695 -12.934 -13.346	1.00 19.99	C
ANISOU 1566	CB ASP A 101	3297 1946 2354	332 -530 -523	C
ATOM 1567	CG ASP A 101	15.822 -13.243 -14.810	1.00 19.27	C
ANISOU 1567	CG ASP A 101	3172 1793 2356	309 -409 -434	C
ATOM 1568	OD1 ASP A 101	16.192 -12.320 -15.563	1.00 19.44	O
ANISOU 1568	OD1 ASP A 101	3268 1651 2468	294 -324 -443	O
ATOM 1569	OD2 ASP A 101	15.578 -14.405 -15.203	1.00 18.55	O
ANISOU 1569	OD2 ASP A 101	3005 1799 2244	316 -394 -353	O
ATOM 1570	H ASP A 101	18.479 -13.990 -13.464	1.00 24.32	H
ATOM 1571	HA ASP A 101	17.545 -12.144 -13.002	1.00 25.06	H
ATOM 1572	HB2 ASP A 101	15.144 -13.621 -12.938	1.00 23.99	H
ATOM 1573	HB3 ASP A 101	15.270 -12.067 -13.255	1.00 23.99	H
ATOM 1574	N GLY A 102	18.020 -12.821 -10.440	1.00 23.48	N
ANISOU 1574	N GLY A 102	3692 2349 2880	190 -976 -767	N
ATOM 1575	CA GLY A 102	18.043 -12.599 -9.012	1.00 27.10	C
ANISOU 1575	CA GLY A 102	4274 2837 3185	268 -1160 -882	C
ATOM 1576	C GLY A 102	17.375 -13.664 -8.173	1.00 28.25	C
ANISOU 1576	C GLY A 102	4446 3175 3112	416 -1153 -820	C
ATOM 1577	O GLY A 102	17.262 -13.484 -6.955	1.00 30.19	O
ANISOU 1577	O GLY A 102	4849 3444 3176	537 -1277 -903	O
ATOM 1578	H GLY A 102	18.783 -13.038 -10.772	1.00 28.17	H
ATOM 1579	HA2 GLY A 102	18.966 -12.529 -8.722	1.00 32.51	H
ATOM 1580	HA3 GLY A 102	17.606 -11.754 -8.821	1.00 32.51	H
ATOM 1581	N GLY A 103	16.936 -14.776 -8.775	1.00 24.82	N
ANISOU 1581	N GLY A 103	3385 2896 3152	1090 -1136 -1018	N
ATOM 1582	CA GLY A 103	16.275 -15.830 -8.038	1.00 25.09	C
ANISOU 1582	CA GLY A 103	3387 3175 2972	1177 -1058 -1037	C
ATOM 1583	C GLY A 103	16.895 -17.187 -8.322	1.00 23.12	C
ANISOU 1583	C GLY A 103	3085 2940 2759	1083 -995 -801	C
ATOM 1584	O GLY A 103	17.703 -17.350 -9.241	1.00 23.70	O
ANISOU 1584	O GLY A 103	3128 2815 3063	983 -946 -684	O
ATOM 1585	H GLY A 103	17.016 -14.935 -9.616	1.00 29.79	H
ATOM 1586	HA2 GLY A 103	16.339 -15.652 -7.087	1.00 30.11	H
ATOM 1587	HA3 GLY A 103	15.337 -15.860 -8.285	1.00 30.11	H
ATOM 1588	N THR A 104	16.499 -18.165 -7.506	1.00 20.87	N
ANISOU 1588	N THR A 104	2785 2893 2252	1059 -961 -718	N
ATOM 1589	CA THR A 104	16.890 -19.559 -7.678	1.00 19.47	C
ANISOU 1589	CA THR A 104	2551 2714 2133	970 -916 -464	C
ATOM 1590	C THR A 104	15.625 -20.381 -7.886	1.00 18.54	C
ANISOU 1590	C THR A 104	2432 2764 1849	978 -737 -399	C
ATOM 1591	O THR A 104	14.640 -20.193 -7.162	1.00 20.49	O
ANISOU 1591	O THR A 104	2713 3238 1835	994 -674 -524	O
ATOM 1592	CB THR A 104	17.676 -20.080 -6.463	1.00 22.07	C

ANISOU 1592 CB THR A 104	2902 3106 2378 870 -1089 -358	C
ATOM 1593 OG1 THR A 104	18.868 -19.304 -6.299 1.00 23.53	O
ANISOU 1593 OG1 THR A 104	3051 3124 2763 854 -1257 -437	O
ATOM 1594 CG2 THR A 104	18.060 -21.536 -6.637 1.00 22.27	C
ANISOU 1594 CG2 THR A 104	2861 3070 2530 787 -1087 -100	C
ATOM 1595 H THR A 104	15.988 -18.038 -6.826 1.00 25.04	H
ATOM 1596 HA THR A 104	17.448 -19.646 -8.467 1.00 23.37	H
ATOM 1597 HB THR A 104	17.127 -20.001 -5.666 1.00 26.48	H
ATOM 1598 HG1 THR A 104	19.303 -19.582 -5.636 1.00 28.23	H
ATOM 1599 HG21 THR A 104	18.553 -21.843 -5.860 1.00 26.72	H
ATOM 1600 HG22 THR A 104	17.262 -22.079 -6.739 1.00 26.72	H
ATOM 1601 HG23 THR A 104	18.615 -21.640 -7.425 1.00 26.72	H
ATOM 1602 N TYR A 105	15.653 -21.279 -8.872 1.00 16.45	N
ANISOU 1602 N TYR A 105	2112 2386 1751 940 -624 -238	N
ATOM 1603 CA TYR A 105	14.496 -22.072 -9.269 1.00 14.95	C
ANISOU 1603 CA TYR A 105	1907 2309 1465 932 -459 -176	C
ATOM 1604 C TYR A 105	14.793 -23.561 -9.152 1.00 14.74	C
ANISOU 1604 C TYR A 105	1854 2272 1475 835 -452 61	C
ATOM 1605 O TYR A 105	15.884 -24.017 -9.506 1.00 13.15	O
ANISOU 1605 O TYR A 105	1597 1867 1531 787 -507 153	O
ATOM 1606 CB TYR A 105	14.081 -21.791 -10.717 1.00 13.71	C
ANISOU 1606 CB TYR A 105	1757 1986 1465 911 -336 -212	C
ATOM 1607 CG TYR A 105	13.633 -20.372 -10.990 1.00 12.97	C
ANISOU 1607 CG TYR A 105	1722 1840 1367 946 -388 -390	C
ATOM 1608 CD1 TYR A 105	14.555 -19.346 -11.068 1.00 12.88	C
ANISOU 1608 CD1 TYR A 105	1761 1676 1457 926 -489 -450	C
ATOM 1609 CD2 TYR A 105	12.297 -20.069 -11.207 1.00 13.28	C
ANISOU 1609 CD2 TYR A 105	1740 1957 1350 976 -371 -477	C
ATOM 1610 CE1 TYR A 105	14.173 -18.059 -11.330 1.00 13.71	C
ANISOU 1610 CE1 TYR A 105	1923 1705 1581 943 -580 -567	C
ATOM 1611 CE2 TYR A 105	11.891 -18.761 -11.468 1.00 14.45	C
ANISOU 1611 CE2 TYR A 105	1917 2015 1559 998 -483 -602	C
ATOM 1612 CZ TYR A 105	12.841 -17.764 -11.528 1.00 14.81	C
ANISOU 1612 CZ TYR A 105	2040 1909 1679 985 -590 -634	C
ATOM 1613 OH TYR A 105	12.483 -16.463 -11.784 1.00 17.05	O
ANISOU 1613 OH TYR A 105	2359 2084 2037 1015 -729 -736	O
ATOM 1614 H TYR A 105	16.355 -21.450 -9.339 1.00 19.74	H
ATOM 1615 HA TYR A 105	13.747 -21.862 -8.689 1.00 17.94	H
ATOM 1616 HB2 TYR A 105	14.838 -21.975 -11.296 1.00 16.45	H
ATOM 1617 HB3 TYR A 105	13.345 -22.379 -10.947 1.00 16.45	H
ATOM 1618 HD1 TYR A 105	15.456 -19.534 -10.933 1.00 15.46	H
ATOM 1619 HD2 TYR A 105	11.661 -20.746 -11.162 1.00 15.94	H
ATOM 1620 HE1 TYR A 105	14.810 -17.382 -11.368 1.00 16.45	H
ATOM 1621 HE2 TYR A 105	10.993 -18.564 -11.604 1.00 17.34	H
ATOM 1622 HH TYR A 105	11.651 -16.409 -11.886 1.00 20.47	H
ATOM 1623 N ASP A 106	13.804 -24.317 -8.680 1.00 15.15	N
ANISOU 1623 N ASP A 106	1928 2516 1312 770 -364 133	N
ATOM 1624 CA ASP A 106	13.852 -25.773 -8.706 1.00 14.81	C
ANISOU 1624 CA ASP A 106	1882 2427 1316 667 -358 368	C
ATOM 1625 C ASP A 106	13.335 -26.287 -10.042 1.00 13.51	C
ANISOU 1625 C ASP A 106	1649 2153 1333 679 -191 374	C
ATOM 1626 O ASP A 106	12.329 -25.798 -10.557 1.00 13.09	O
ANISOU 1626 O ASP A 106	1573 2186 1214 720 -71 239	O

ATOM 1627 CB ASP A 106	13.020 -26.357 -7.567 1.00 16.19	C
ANISOU 1627 CB ASP A 106	2153 2856 1144 526 -326 460	C
ATOM 1628 CG ASP A 106	13.595 -26.026 -6.207 1.00 19.52	C
ANISOU 1628 CG ASP A 106	2713 3381 1321 455 -519 486	C
ATOM 1629 OD1 ASP A 106	14.834 -26.097 -6.061 1.00 19.01	O
ANISOU 1629 OD1 ASP A 106	2659 3107 1457 473 -761 579	O
ATOM 1630 OD2 ASP A 106	12.815 -25.682 -5.293 1.00 22.49	O
ANISOU 1630 OD2 ASP A 106	3176 3992 1377 342 -410 367	O
ATOM 1631 H ASP A 106	13.082 -24.002 -8.334 1.00 18.18	H
ATOM 1632 HA ASP A 106	14.769 -26.067 -8.598 1.00 17.77	H
ATOM 1633 HB2 ASP A 106	12.121 -25.994 -7.612 1.00 19.43	H
ATOM 1634 HB3 ASP A 106	12.994 -27.323 -7.657 1.00 19.43	H
ATOM 1635 N ILE A 107	14.021 -27.291 -10.591 1.00 13.85	N
ANISOU 1635 N ILE A 107	1651 1989 1624 644 -210 509	N
ATOM 1636 CA ILE A 107	13.686 -27.864 -11.895 1.00 13.25	C
ANISOU 1636 CA ILE A 107	1534 1788 1713 627 -54 494	C
ATOM 1637 C ILE A 107	12.938 -29.176 -11.678 1.00 14.29	C
ANISOU 1637 C ILE A 107	1673 1966 1793 526 -16 654	C
ATOM 1638 O ILE A 107	13.432 -30.068 -10.978 1.00 15.78	O
ANISOU 1638 O ILE A 107	1879 2078 2039 466 -149 834	O
ATOM 1639 CB ILE A 107	14.953 -28.096 -12.744 1.00 13.61	C
ANISOU 1639 CB ILE A 107	1532 1574 2065 577 -49 407	C
ATOM 1640 CG1 ILE A 107	15.699 -26.781 -12.983 1.00 13.73	C
ANISOU 1640 CG1 ILE A 107	1555 1546 2116 604 -72 251	C
ATOM 1641 CG2 ILE A 107	14.605 -28.764 -14.092 1.00 12.65	C
ANISOU 1641 CG2 ILE A 107	1412 1360 2033 506 123 361	C
ATOM 1642 CD1 ILE A 107	17.125 -26.970 -13.549 1.00 14.53	C
ANISOU 1642 CD1 ILE A 107	1584 1489 2450 551 -29 180	C
ATOM 1643 H ILE A 107	14.700 -27.665 -10.218 1.00 16.62	H
ATOM 1644 HA ILE A 107	13.104 -27.254 -12.375 1.00 15.90	H
ATOM 1645 HB ILE A 107	15.540 -28.692 -12.253 1.00 16.33	H
ATOM 1646 HG12 ILE A 107	15.196 -26.247 -13.617 1.00 16.48	H
ATOM 1647 HG13 ILE A 107	15.775 -26.306 -12.140 1.00 16.48	H
ATOM 1648 HG21 ILE A 107	15.421 -28.895 -14.599 1.00 15.18	H
ATOM 1649 HG22 ILE A 107	14.181 -29.619 -13.919 1.00 15.18	H
ATOM 1650 HG23 ILE A 107	13.999 -28.186 -14.582 1.00 15.18	H
ATOM 1651 HD11 ILE A 107	17.533 -26.099 -13.674 1.00 17.44	H
ATOM 1652 HD12 ILE A 107	17.647 -27.493 -12.921 1.00 17.44	H
ATOM 1653 HD13 ILE A 107	17.068 -27.433 -14.399 1.00 17.44	H
ATOM 1654 N TYR A 108	11.757 -29.304 -12.289 1.00 14.30	N
ANISOU 1654 N TYR A 108	1663 2059 1709 495 126 598	N
ATOM 1655 CA TYR A 108	10.967 -30.529 -12.208 1.00 15.03	C
ANISOU 1655 CA TYR A 108	1749 2185 1775 370 185 730	C
ATOM 1656 C TYR A 108	10.540 -30.963 -13.603 1.00 16.05	C
ANISOU 1656 C TYR A 108	1850 2188 2060 358 293 658	C
ATOM 1657 O TYR A 108	10.505 -30.164 -14.546 1.00 13.84	O
ANISOU 1657 O TYR A 108	1586 1867 1804 426 328 505	O
ATOM 1658 CB TYR A 108	9.696 -30.357 -11.355 1.00 13.68	C
ANISOU 1658 CB TYR A 108	1566 2317 1314 287 268 708	C
ATOM 1659 CG TYR A 108	9.901 -29.837 -9.954 1.00 14.72	C
ANISOU 1659 CG TYR A 108	1769 2637 1188 252 207 728	C
ATOM 1660 CD1 TYR A 108	10.259 -30.693 -8.924 1.00 16.78	C
ANISOU 1660 CD1 TYR A 108	2157 2901 1317 91 103 969	C

ATOM 1661	CD2 TYR A 108	9.703 -28.493 -9.652 1.00 14.77	C
ANISOU 1661	CD2 TYR A 108	1743 2800 1068 361 227 504	C
ATOM 1662	CE1 TYR A 108	10.431 -30.229 -7.640 1.00 18.79	C
ANISOU 1662	CE1 TYR A 108	2533 3302 1302 15 31 953	C
ATOM 1663	CE2 TYR A 108	9.877 -28.018 -8.366 1.00 16.39	C
ANISOU 1663	CE2 TYR A 108	2032 3188 1007 309 186 481	C
ATOM 1664	CZ TYR A 108	10.237 -28.893 -7.361 1.00 18.55	C
ANISOU 1664	CZ TYR A 108	2459 3467 1120 118 94 709	C
ATOM 1665	OH TYR A 108	10.413 -28.432 -6.070 1.00 20.93	O
ANISOU 1665	OH TYR A 108	2903 3888 1161 23 35 658	O
ATOM 1666	H TYR A 108	11.391 -28.687 -12.762 1.00 17.15	H
ATOM 1667	HA TYR A 108	11.505 -31.235 -11.818 1.00 18.03	H
ATOM 1668	HB2 TYR A 108	9.106 -29.736 -11.810 1.00 16.41	H
ATOM 1669	HB3 TYR A 108	9.260 -31.220 -11.282 1.00 16.41	H
ATOM 1670	HD1 TYR A 108	10.389 -31.596 -9.105 1.00 20.13	H
ATOM 1671	HD2 TYR A 108	9.458 -27.903 -10.328 1.00 17.72	H
ATOM 1672	HE1 TYR A 108	10.676 -30.816 -6.962 1.00 22.54	H
ATOM 1673	HE2 TYR A 108	9.746 -27.117 -8.178 1.00 19.67	H
ATOM 1674	HH TYR A 108	10.264 -27.606 -6.037 1.00 25.11	H
ATOM 1675	N ATHR A 109	10.228 -32.258 -13.731 0.75 17.72	N
ANISOU 1675	N ATHR A 109	2053 2316 2362 245 320 780	N
ATOM 1676	N BTHR A 109	10.191 -32.240 -13.719 0.25 17.77	N
ANISOU 1676	N BTHR A 109	2060 2331 2361 244 322 779	N
ATOM 1677	CA ATHR A 109	9.612 -32.805 -14.934 0.75 18.29	C
ANISOU 1677	CA ATHR A 109	2113 2300 2537 196 413 707	C
ATOM 1678	CA BTHR A 109	9.587 -32.767 -14.932 0.25 18.22	C
ANISOU 1678	CA BTHR A 109	2104 2298 2521 197 414 703	C
ATOM 1679	C ATHR A 109	8.401 -33.638 -14.543 0.75 19.10	C
ANISOU 1679	C ATHR A 109	2176 2528 2553 51 458 799	C
ATOM 1680	C BTHR A 109	8.402 -33.640 -14.555 0.25 19.03	C
ANISOU 1680	C BTHR A 109	2167 2518 2545 51 458 798	C
ATOM 1681	O ATHR A 109	8.417 -34.334 -13.520 0.75 20.52	O
ANISOU 1681	O ATHR A 109	2382 2736 2677 -60 421 987	O
ATOM 1682	O BTHR A 109	8.443 -34.366 -13.556 0.25 20.72	O
ANISOU 1682	O BTHR A 109	2409 2751 2714 -59 419 988	O
ATOM 1683	CB ATHR A 109	10.586 -33.679 -15.769 0.75 18.60	C
ANISOU 1683	CB ATHR A 109	2162 2035 2869 183 431 696	C
ATOM 1684	CB BTHR A 109	10.589 -33.573 -15.772 0.25 18.47	C
ANISOU 1684	CB BTHR A 109	2148 2030 2840 191 432 687	C
ATOM 1685	OG1ATHR A 109	10.993 -34.838 -15.024 0.75 20.35	O
ANISOU 1685	OG1ATHR A 109	2366 2131 3236 126 326 861	O
ATOM 1686	OG1BTHR A 109	9.988 -33.923 -17.025 0.25 18.56	O
ANISOU 1686	OG1BTHR A 109	2191 1977 2885 127 528 570	O
ATOM 1687	CG2ATHR A 109	11.806 -32.878 -16.199 0.75 18.19	C
ANISOU 1687	CG2ATHR A 109	2114 1871 2928 278 446 568	C
ATOM 1688	CG2BTHR A 109	11.028 -34.842 -15.038 0.25 20.47	C
ANISOU 1688	CG2BTHR A 109	2380 2140 3259 128 325 858	C
ATOM 1689	H ATHR A 109	10.368 -32.847 -13.120 0.75 21.26	H
ATOM 1690	H BTHR A 109	10.296 -32.827 -13.100 0.25 21.33	H
ATOM 1691	HA ATHR A 109	9.308 -32.075 -15.495 0.75 21.95	H
ATOM 1692	HA BTHR A 109	9.262 -32.031 -15.472 0.25 21.86	H
ATOM 1693	HB ATHR A 109	10.128 -33.972 -16.573 0.75 22.32	H
ATOM 1694	HB BTHR A 109	11.376 -33.030 -15.936 0.25 22.16	H

ATOM	1695	HG1	ATHR	A	109	11.383	-34.603	-14.318	0.75	24.42		H
ATOM	1696	HG1	BTHR	A	109	9.300	-34.387	-16.895	0.25	22.27		H
ATOM	1697	HG21	ATHR	A	109	12.403	-33.438	-16.719	0.75	21.83		H
ATOM	1698	HG21	BTHR	A	109	11.660	-35.337	-15.583	0.25	24.57		H
ATOM	1699	HG22	ATHR	A	109	11.531	-32.121	-16.741	0.75	21.83		H
ATOM	1700	HG22	BTHR	A	109	11.452	-34.609	-14.198	0.25	24.57		H
ATOM	1701	HG23	ATHR	A	109	12.279	-32.551	-15.418	0.75	21.83		H
ATOM	1702	HG23	BTHR	A	109	10.259	-35.404	-14.858	0.25	24.57		H
ATOM	1703	N	THR	A	110	7.343	-33.551	-15.355	1.00	18.28		N
ANISOU	1703	N	THR	A	110	2020	2491	2432	26	517	673	N
ATOM	1704	CA	THR	A	110	6.133	-34.336	-15.153	1.00	18.91		C
ANISOU	1704	CA	THR	A	110	2016	2684	2485	-132	579	716	C
ATOM	1705	C	THR	A	110	5.578	-34.735	-16.514	1.00	16.01		C
ANISOU	1705	C	THR	A	110	1641	2195	2249	-163	574	604	C
ATOM	1706	O	THR	A	110	6.100	-34.344	-17.562	1.00	13.63		O
ANISOU	1706	O	THR	A	110	1435	1747	1997	-81	537	496	O
ATOM	1707	CB	THR	A	110	5.078	-33.556	-14.361	1.00	21.91		C
ANISOU	1707	CB	THR	A	110	2260	3383	2681	-140	646	615	C
ATOM	1708	OG1	THR	A	110	4.794	-32.328	-15.038	1.00	20.58		O
ANISOU	1708	OG1	THR	A	110	2041	3252	2528	37	580	397	O
ATOM	1709	CG2	THR	A	110	5.568	-33.249	-12.943	1.00	23.49		C
ANISOU	1709	CG2	THR	A	110	2531	3703	2690	-163	646	690	C
ATOM	1710	H	THR	A	110	7.303	-33.032	-16.040	1.00	21.93		H
ATOM	1711	HA	THR	A	110	6.351	-35.143	-14.662	1.00	22.69		H
ATOM	1712	HB	THR	A	110	4.267	-34.085	-14.297	1.00	26.29		H
ATOM	1713	HG1	THR	A	110	4.502	-32.486	-15.810	1.00	24.70		H
ATOM	1714	HG21	THR	A	110	4.888	-32.757	-12.457	1.00	28.19		H
ATOM	1715	HG22	THR	A	110	5.756	-34.076	-12.471	1.00	28.19		H
ATOM	1716	HG23	THR	A	110	6.377	-32.716	-12.981	1.00	28.19		H
ATOM	1717	N	THR	A	111	4.502	-35.519	-16.493	1.00	17.17		N
ANISOU	1717	N	THR	A	111	1691	2407	2428	-318	617	623	N
ATOM	1718	CA	THR	A	111	3.762	-35.882	-17.694	1.00	17.14		C
ANISOU	1718	CA	THR	A	111	1664	2320	2529	-371	575	501	C
ATOM	1719	C	THR	A	111	2.280	-35.626	-17.460	1.00	18.10		C
ANISOU	1719	C	THR	A	111	1563	2680	2635	-430	585	392	C
ATOM	1720	O	THR	A	111	1.769	-35.869	-16.364	1.00	20.05		O
ANISOU	1720	O	THR	A	111	1680	3117	2822	-550	710	456	O
ATOM	1721	CB	THR	A	111	3.979	-37.357	-18.061	1.00	17.91		C
ANISOU	1721	CB	THR	A	111	1830	2182	2793	-526	597	599	C
ATOM	1722	OG1	THR	A	111	5.372	-37.593	-18.275	1.00	18.63		O
ANISOU	1722	OG1	THR	A	111	2060	2035	2982	-450	595	637	O
ATOM	1723	CG2	THR	A	111	3.198	-37.748	-19.319	1.00	17.07		C
ANISOU	1723	CG2	THR	A	111	1723	1993	2770	-604	540	449	C
ATOM	1724	H	THR	A	111	4.176	-35.860	-15.775	1.00	20.61		H
ATOM	1725	HA	THR	A	111	4.057	-35.332	-18.437	1.00	20.57		H
ATOM	1726	HB	THR	A	111	3.671	-37.915	-17.329	1.00	21.49		H
ATOM	1727	HG1	THR	A	111	5.499	-38.399	-18.476	1.00	22.35		H
ATOM	1728	HG21	THR	A	111	3.353	-38.682	-19.528	1.00	20.48		H
ATOM	1729	HG22	THR	A	111	2.249	-37.610	-19.176	1.00	20.48		H
ATOM	1730	HG23	THR	A	111	3.486	-37.205	-20.069	1.00	20.48		H
ATOM	1731	N	ARG	A	112	1.593	-35.137	-18.489	1.00	18.87		N
ANISOU	1731	N	ARG	A	112	1616	2762	2790	-366	446	215	N
ATOM	1732	CA	ARG	A	112	0.138	-35.040	-18.491	1.00	22.18		C

ANISOU 1732 CA ARG A 112	1765 3349 3311 -417 405 65	C
ATOM 1733 C ARG A 112	-0.426 -36.045 -19.482 1.00 23.41	C
ANISOU 1733 C ARG A 112	1934 3359 3603 -571 319 43	C
ATOM 1734 O ARG A 112	0.081 -36.182 -20.599 1.00 21.85	O
ANISOU 1734 O ARG A 112	1970 2946 3386 -554 195 30	O
ATOM 1735 CB ARG A 112	-0.343 -33.632 -18.867 1.00 24.06	C
ANISOU 1735 CB ARG A 112	1913 3652 3577 -204 209 -138	C
ATOM 1736 CG ARG A 112	0.154 -32.553 -17.936 1.00 25.22	C
ANISOU 1736 CG ARG A 112	2041 3928 3615 -43 276 -165	C
ATOM 1737 CD ARG A 112	-0.766 -32.209 -16.751 1.00 29.63	C
ANISOU 1737 CD ARG A 112	2261 4784 4212 -56 437 -321	C
ATOM 1738 NE ARG A 112	-1.950 -33.064 -16.613 1.00 34.03	N
ANISOU 1738 NE ARG A 112	2595 5430 4902 -246 532 -370	N
ATOM 1739 CZ ARG A 112	-3.214 -32.644 -16.694 1.00 37.86	C
ANISOU 1739 CZ ARG A 112	2843 5969 5573 -192 448 -582	C
ATOM 1740 NH1 ARG A 112	-3.506 -31.364 -16.918 1.00 38.73	N
ANISOU 1740 NH1 ARG A 112	2894 6041 5779 45 250 -774	N
ATOM 1741 NH2 ARG A 112	-4.205 -33.515 -16.545 1.00 41.25	N
ANISOU 1741 NH2 ARG A 112	3106 6459 6106 -381 550 -596	N
ATOM 1742 H ARG A 112	1.957 -34.850 -19.214 1.00 22.64	H
ATOM 1743 HA ARG A 112	-0.201 -35.255 -17.608 1.00 26.61	H
ATOM 1744 HB2 ARG A 112	-0.029 -33.422 -19.760 1.00 28.87	H
ATOM 1745 HB3 ARG A 112	-1.313 -33.617 -18.847 1.00 28.87	H
ATOM 1746 HG2 ARG A 112	1.006 -32.835 -17.569 1.00 30.27	H
ATOM 1747 HG3 ARG A 112	0.278 -31.740 -18.451 1.00 30.27	H
ATOM 1748 HD2 ARG A 112	-0.253 -32.286 -15.931 1.00 35.55	H
ATOM 1749 HD3 ARG A 112	-1.076 -31.296 -16.856 1.00 35.55	H
ATOM 1750 HE ARG A 112	-1.819 -33.901 -16.469 1.00 40.83	H
ATOM 1751 HH11 ARG A 112	-2.874 -30.789 -17.014 1.00 46.47	H
ATOM 1752 HH12 ARG A 112	-4.327 -31.112 -16.967 1.00 46.47	H
ATOM 1753 HH21 ARG A 112	-4.030 -34.345 -16.401 1.00 49.50	H
ATOM 1754 HH22 ARG A 112	-5.022 -33.251 -16.598 1.00 49.50	H
ATOM 1755 N TYR A 113	-1.486 -36.733 -19.072 1.00 22.58	N
ANISOU 1755 N TYR A 113	1777 2759 4044 -14 340 830	N
ATOM 1756 CA TYR A 113	-2.086 -37.802 -19.858 1.00 24.34	C
ANISOU 1756 CA TYR A 113	1939 2813 4498 -101 258 811	C
ATOM 1757 C TYR A 113	-3.491 -37.405 -20.286 1.00 25.50	C
ANISOU 1757 C TYR A 113	1955 2963 4772 -138 207 754	C
ATOM 1758 O TYR A 113	-4.298 -36.975 -19.456 1.00 26.42	O
ANISOU 1758 O TYR A 113	1971 3183 4885 -131 304 833	O
ATOM 1759 CB TYR A 113	-2.142 -39.099 -19.052 1.00 26.24	C
ANISOU 1759 CB TYR A 113	2111 2976 4883 -160 352 985	C
ATOM 1760 CG TYR A 113	-0.796 -39.569 -18.572 1.00 25.60	C
ANISOU 1760 CG TYR A 113	2148 2894 4684 -115 402 1054	C
ATOM 1761 CD1 TYR A 113	-0.303 -39.181 -17.334 1.00 25.48	C
ANISOU 1761 CD1 TYR A 113	2154 3028 4500 -46 526 1167	C
ATOM 1762 CD2 TYR A 113	-0.016 -40.407 -19.354 1.00 25.51	C
ANISOU 1762 CD2 TYR A 113	2230 2735 4726 -129 317 1002	C
ATOM 1763 CE1 TYR A 113	0.930 -39.615 -16.892 1.00 25.79	C
ANISOU 1763 CE1 TYR A 113	2292 3071 4435 1 557 1227	C
ATOM 1764 CE2 TYR A 113	1.214 -40.838 -18.925 1.00 25.71	C
ANISOU 1764 CE2 TYR A 113	2354 2764 4652 -81 362 1068	C
ATOM 1765 CZ TYR A 113	1.686 -40.443 -17.694 1.00 26.48	C

ANISOU 1765 CZ TYR A 113	2458 3011 4591 -19 478 1182	C
ATOM 1766 OH TYR A 113	2.923 -40.888 -17.273 1.00 28.28	O
ANISOU 1766 OH TYR A 113	2776 3245 4725 35 507 1244	O
ATOM 1767 H TYR A 113	-1.885 -36.595 -18.323 1.00 27.10	H
ATOM 1768 HA TYR A 113	-1.554 -37.957 -20.654 1.00 29.21	H
ATOM 1769 HB2 TYR A 113	-2.703 -38.961 -18.273 1.00 31.49	H
ATOM 1770 HB3 TYR A 113	-2.518 -39.798 -19.609 1.00 31.49	H
ATOM 1771 HD1 TYR A 113	-0.813 -38.621 -16.793 1.00 30.58	H
ATOM 1772 HD2 TYR A 113	-0.329 -40.676 -20.188 1.00 30.61	H
ATOM 1773 HE1 TYR A 113	1.251 -39.347 -16.061 1.00 30.94	H
ATOM 1774 HE2 TYR A 113	1.725 -41.399 -19.462 1.00 30.85	H
ATOM 1775 HH TYR A 113	3.266 -41.381 -17.860 1.00 33.94	H
ATOM 1776 N ASN A 114	-3.779 -37.557 -21.576 1.00 26.32	N
ANISOU 1776 N ASN A 114	2077 2955 4969 -161 49 608	N
ATOM 1777 CA ASN A 114	-5.131 -37.348 -22.093 1.00 29.17	C
ANISOU 1777 CA ASN A 114	2303 3298 5484 -200 -32 543	C
ATOM 1778 C ASN A 114	-5.663 -35.978 -21.694 1.00 26.29	C
ANISOU 1778 C ASN A 114	1895 3106 4988 -135 27 533	C
ATOM 1779 O ASN A 114	-6.820 -35.832 -21.295 1.00 27.35	O
ANISOU 1779 O ASN A 114	1926 3282 5184 -156 65 569	O
ATOM 1780 CB ASN A 114	-6.076 -38.445 -21.603 1.00 33.58	C
ANISOU 1780 CB ASN A 114	2720 3762 6278 -298 7 653	C
ATOM 1781 CG ASN A 114	-5.616 -39.825 -22.002 1.00 36.00	C
ANISOU 1781 CG ASN A 114	3052 3876 6751 -366 -57 661	C
ATOM 1782 OD1 ASN A 114	-5.193 -40.046 -23.136 1.00 36.66	O
ANISOU 1782 OD1 ASN A 114	3220 3853 6855 -360 -212 516	O
ATOM 1783 ND2 ASN A 114	-5.690 -40.765 -21.068 1.00 37.61	N
ANISOU 1783 ND2 ASN A 114	3228 4036 7025 -401 59 819	N
ATOM 1784 H ASN A 114	-3.206 -37.782 -22.177 1.00 31.59	H
ATOM 1785 HA ASN A 114	-5.106 -37.387 -23.062 1.00 35.01	H
ATOM 1786 HB2 ASN A 114	-6.124 -38.413 -20.635 1.00 40.30	H
ATOM 1787 HB3 ASN A 114	-6.955 -38.300 -21.985 1.00 40.30	H
ATOM 1788 HD21 ASN A 114	-5.440 -41.568 -21.245 1.00 45.13	H
ATOM 1789 HD22 ASN A 114	-5.988 -40.570 -20.285 1.00 45.13	H
ATOM 1790 N ALA A 115	-4.806 -34.963 -21.812 1.00 22.28	N
ANISOU 1790 N ALA A 115	1533 2689 4245 -43 32 466	N
ATOM 1791 CA ALA A 115	-5.141 -33.619 -21.367 1.00 21.08	C
ANISOU 1791 CA ALA A 115	1367 2691 3951 30 92 453	C
ATOM 1792 C ALA A 115	-5.147 -32.655 -22.546 1.00 20.55	C
ANISOU 1792 C ALA A 115	1387 2625 3795 95 -32 289	C
ATOM 1793 O ALA A 115	-4.661 -32.994 -23.634 1.00 19.64	O
ANISOU 1793 O ALA A 115	1370 2408 3683 100 -147 193	O
ATOM 1794 CB ALA A 115	-4.150 -33.145 -20.301 1.00 19.74	C
ANISOU 1794 CB ALA A 115	1286 2630 3586 88 215 527	C
ATOM 1795 H ALA A 115	-4.018 -35.032 -22.150 1.00 26.74	H
ATOM 1796 HA ALA A 115	-6.029 -33.624 -20.975 1.00 25.30	H
ATOM 1797 HB1 ALA A 115	-4.393 -32.249 -20.020 1.00 23.69	H
ATOM 1798 HB2 ALA A 115	-4.187 -33.751 -19.544 1.00 23.69	H
ATOM 1799 HB3 ALA A 115	-3.257 -33.143 -20.680 1.00 23.69	H
ATOM 1800 N PRO A 116	-5.699 -31.456 -22.379 1.00 21.81	N
ANISOU 1800 N PRO A 116	1520 2896 3870 158 -7 256	N
ATOM 1801 CA PRO A 116	-5.682 -30.485 -23.476 1.00 22.02	C
ANISOU 1801 CA PRO A 116	1638 2924 3805 232 -112 116	C

ATOM 1802 C PRO A 116	-4.278 -29.978 -23.760 1.00 20.99	C
ANISOU 1802 C PRO A 116	1691 2788 3495 290 -105 76	C
ATOM 1803 O PRO A 116	-3.474 -29.768 -22.849 1.00 21.49	O
ANISOU 1803 O PRO A 116	1799 2909 3460 299 -5 141	O
ATOM 1804 CB PRO A 116	-6.591 -29.357 -22.968 1.00 22.91	C
ANISOU 1804 CB PRO A 116	1668 3160 3876 288 -57 119	C
ATOM 1805 CG PRO A 116	-7.393 -29.959 -21.882 1.00 23.85	C
ANISOU 1805 CG PRO A 116	1650 3321 4091 226 45 239	C
ATOM 1806 CD PRO A 116	-6.524 -30.993 -21.252 1.00 23.47	C
ANISOU 1806 CD PRO A 116	1622 3226 4068 170 114 342	C
ATOM 1807 HA PRO A 116	-6.060 -30.871 -24.282 1.00 26.42	H
ATOM 1808 HB2 PRO A 116	-6.047 -28.628 -22.629 1.00 27.49	H
ATOM 1809 HB3 PRO A 116	-7.164 -29.051 -23.688 1.00 27.49	H
ATOM 1810 HG2 PRO A 116	-7.630 -29.275 -21.237 1.00 28.62	H
ATOM 1811 HG3 PRO A 116	-8.191 -30.366 -22.255 1.00 28.62	H
ATOM 1812 HD2 PRO A 116	-5.968 -30.597 -20.564 1.00 28.16	H
ATOM 1813 HD3 PRO A 116	-7.062 -31.722 -20.902 1.00 28.16	H
ATOM 1814 N SER A 117	-3.995 -29.779 -25.044 1.00 18.95	N
ANISOU 1814 N SER A 117	1538 2463 3200 336 -214 -32	N
ATOM 1815 CA SER A 117	-2.749 -29.173 -25.488 1.00 16.77	C
ANISOU 1815 CA SER A 117	1424 2177 2770 400 -202 -68	C
ATOM 1816 C SER A 117	-3.039 -28.353 -26.733 1.00 16.48	C
ANISOU 1816 C SER A 117	1462 2124 2674 488 -293 -176	C
ATOM 1817 O SER A 117	-4.176 -28.302 -27.216 1.00 17.17	O
ANISOU 1817 O SER A 117	1478 2213 2834 500 -378 -230	O
ATOM 1818 CB SER A 117	-1.687 -30.228 -25.773 1.00 15.64	C
ANISOU 1818 CB SER A 117	1361 1942 2639 372 -213 -48	C
ATOM 1819 OG SER A 117	-1.991 -30.937 -26.960 1.00 16.06	O
ANISOU 1819 OG SER A 117	1446 1893 2763 380 -337 -127	O
ATOM 1820 H SER A 117	-4.522 -29.993 -25.690 1.00 22.74	H
ATOM 1821 HA SER A 117	-2.415 -28.578 -24.798 1.00 20.12	H
ATOM 1822 HB2 SER A 117	-0.827 -29.791 -25.878 1.00 18.77	H
ATOM 1823 HB3 SER A 117	-1.654 -30.852 -25.032 1.00 18.77	H
ATOM 1824 HG SER A 117	-2.735 -31.320 -26.884 1.00 19.27	H
ATOM 1825 N ILE A 118	-1.993 -27.724 -27.274 1.00 16.77	N
ANISOU 1825 N ILE A 118	1641 2145 2585 556 -275 -201	N
ATOM 1826 CA ILE A 118	-2.128 -27.043 -28.552 1.00 17.98	C
ANISOU 1826 CA ILE A 118	1890 2272 2669 657 -350 -286	C
ATOM 1827 C ILE A 118	-2.438 -28.012 -29.687 1.00 19.61	C
ANISOU 1827 C ILE A 118	2131 2393 2929 675 -481 -357	C
ATOM 1828 O ILE A 118	-2.812 -27.568 -30.774 1.00 19.79	O
ANISOU 1828 O ILE A 118	2221 2402 2897 772 -568 -437	O
ATOM 1829 CB ILE A 118	-0.854 -26.220 -28.872 1.00 17.60	C
ANISOU 1829 CB ILE A 118	1981 2214 2493 723 -280 -273	C
ATOM 1830 CG1 ILE A 118	0.395 -27.119 -28.870 1.00 17.92	C
ANISOU 1830 CG1 ILE A 118	2082 2195 2531 691 -244 -229	C
ATOM 1831 CG2 ILE A 118	-0.713 -25.062 -27.884 1.00 17.47	C
ANISOU 1831 CG2 ILE A 118	1939 2270 2428 709 -182 -232	C
ATOM 1832 CD1 ILE A 118	1.645 -26.422 -29.383 1.00 18.39	C
ANISOU 1832 CD1 ILE A 118	2267 2235 2485 719 -169 -199	C
ATOM 1833 H ILE A 118	-1.209 -27.680 -26.923 1.00 20.12	H
ATOM 1834 HA ILE A 118	-2.869 -26.420 -28.491 1.00 21.57	H
ATOM 1835 HB ILE A 118	-0.953 -25.847 -29.761 1.00 21.12	H

ATOM	1836	HG12	ILE	A	118	0.570	-27.412	-27.962	1.00	21.50	H	
ATOM	1837	HG13	ILE	A	118	0.229	-27.888	-29.438	1.00	21.50	H	
ATOM	1838	HG21	ILE	A	118	0.088	-24.559	-28.100	1.00	20.96	H	
ATOM	1839	HG22	ILE	A	118	-1.492	-24.489	-27.957	1.00	20.96	H	
ATOM	1840	HG23	ILE	A	118	-0.647	-25.420	-26.985	1.00	20.96	H	
ATOM	1841	HD11	ILE	A	118	2.388	-27.045	-29.353	1.00	22.07	H	
ATOM	1842	HD12	ILE	A	118	1.492	-26.132	-30.295	1.00	22.07	H	
ATOM	1843	HD13	ILE	A	118	1.833	-25.656	-28.818	1.00	22.07	H	
ATOM	1844	N	ASP	A	119	-2.303	-29.328	-29.459	1.00	20.03	N	
ANISOU	1844	N	ASP	A	119	2143	2382	3084	595	-504	-335	N
ATOM	1845	CA	ASP	A	119	-2.551	-30.339	-30.487	1.00	21.38	C	
ANISOU	1845	CA	ASP	A	119	2352	2453	3319	610	-642	-417	C
ATOM	1846	C	ASP	A	119	-3.918	-31.012	-30.383	1.00	22.82	C	
ANISOU	1846	C	ASP	A	119	2377	2609	3683	536	-749	-453	C
ATOM	1847	O	ASP	A	119	-4.276	-31.781	-31.284	1.00	24.98	O	
ANISOU	1847	O	ASP	A	119	2673	2794	4026	551	-895	-548	O
ATOM	1848	CB	ASP	A	119	-1.470	-31.427	-30.433	1.00	21.77	C	
ANISOU	1848	CB	ASP	A	119	2469	2420	3382	577	-611	-380	C
ATOM	1849	CG	ASP	A	119	-0.245	-31.093	-31.282	1.00	21.77	C	
ANISOU	1849	CG	ASP	A	119	2649	2399	3225	688	-580	-396	C
ATOM	1850	OD1	ASP	A	119	-0.187	-29.988	-31.865	1.00	22.47	O	
ANISOU	1850	OD1	ASP	A	119	2811	2533	3192	783	-567	-423	O
ATOM	1851	OD2	ASP	A	119	0.665	-31.941	-31.358	1.00	21.63	O	
ANISOU	1851	OD2	ASP	A	119	2694	2315	3208	682	-557	-372	O
ATOM	1852	H	ASP	A	119	-2.065	-29.660	-28.702	1.00	24.03	H	
ATOM	1853	HA	ASP	A	119	-2.498	-29.914	-31.357	1.00	25.66	H	
ATOM	1854	HB2	ASP	A	119	-1.177	-31.535	-29.515	1.00	26.12	H	
ATOM	1855	HB3	ASP	A	119	-1.844	-32.259	-30.762	1.00	26.12	H	
ATOM	1856	N	GLY	A	120	-4.679	-30.774	-29.328	1.00	22.86	N	
ANISOU	1856	N	GLY	A	120	2223	2685	3776	462	-682	-383	N
ATOM	1857	CA	GLY	A	120	-5.982	-31.398	-29.210	1.00	24.63	C	
ANISOU	1857	CA	GLY	A	120	2273	2884	4202	387	-768	-400	C
ATOM	1858	C	GLY	A	120	-6.452	-31.463	-27.772	1.00	25.60	C	
ANISOU	1858	C	GLY	A	120	2228	3074	4423	292	-633	-269	C
ATOM	1859	O	GLY	A	120	-5.747	-31.077	-26.839	1.00	22.77	O	
ANISOU	1859	O	GLY	A	120	1901	2784	3965	290	-486	-176	O
ATOM	1860	H	GLY	A	120	-4.465	-30.261	-28.672	1.00	27.43	H	
ATOM	1861	HA2	GLY	A	120	-6.631	-30.892	-29.724	1.00	29.56	H	
ATOM	1862	HA3	GLY	A	120	-5.943	-32.300	-29.563	1.00	29.56	H	
ATOM	1863	N	AASP	A	121	-7.678	-31.978	-27.618	0.63	28.46	N	
ANISOU	1863	N	AASP	A	121	2407	3415	4991	221	-690	-264	N
ATOM	1864	N	BASP	A	121	-7.669	-31.991	-27.618	0.37	28.54	N	
ANISOU	1864	N	BASP	A	121	2419	3425	5002	220	-690	-264	N
ATOM	1865	CA	AASP	A	121	-8.331	-32.030	-26.313	0.63	29.83	C	
ANISOU	1865	CA	AASP	A	121	2413	3660	5260	146	-551	-129	C
ATOM	1866	CA	BASP	A	121	-8.327	-32.023	-26.317	0.37	29.86	C	
ANISOU	1866	CA	BASP	A	121	2417	3664	5263	147	-551	-130	C
ATOM	1867	C	AASP	A	121	-7.790	-33.147	-25.430	0.63	30.01	C	
ANISOU	1867	C	AASP	A	121	2395	3625	5380	51	-452	-2	C
ATOM	1868	C	BASP	A	121	-7.822	-33.157	-25.433	0.37	30.03	C	
ANISOU	1868	C	BASP	A	121	2394	3628	5389	50	-453	-2	C
ATOM	1869	O	AASP	A	121	-7.808	-33.021	-24.200	0.63	30.14	O	
ANISOU	1869	O	AASP	A	121	2355	3727	5369	29	-287	131	O

ATOM 1870 O BASP A 121	-7.893 -33.053 -24.203 0.37 30.30	O
ANISOU 1870 O BASP A 121	2367 3745 5399 24 -290 132	O
ATOM 1871 CB AASP A 121	-9.840 -32.221 -26.484 0.63 33.03	C
ANISOU 1871 CB AASP A 121	2687 4056 5806 97 -608 -147	C
ATOM 1872 CB BASP A 121	-9.839 -32.154 -26.509 0.37 32.94	C
ANISOU 1872 CB BASP A 121	2680 4049 5785 103 -610 -151	C
ATOM 1873 CG AASP A 121	-10.485 -31.112 -27.285 0.63 33.58	C
ANISOU 1873 CG AASP A 121	2793 4191 5774 193 -694 -254	C
ATOM 1874 CG BASP A 121	-10.595 -32.151 -25.198 0.37 34.36	C
ANISOU 1874 CG BASP A 121	2722 4314 6020 46 -446 -7	C
ATOM 1875 OD1AASP A 121	-10.012 -29.959 -27.197 0.63 32.96	O
ANISOU 1875 OD1AASP A 121	2804 4207 5512 287 -634 -260	O
ATOM 1876 OD1BASP A 121	-10.376 -31.227 -24.386 0.37 33.83	O
ANISOU 1876 OD1BASP A 121	2674 4376 5803 104 -314 53	O
ATOM 1877 OD2AASP A 121	-11.469 -31.395 -28.003 0.63 35.79	O
ANISOU 1877 OD2AASP A 121	3016 4421 6163 177 -820 -329	O
ATOM 1878 OD2BASP A 121	-11.406 -33.077 -24.981 0.37 36.59	O
ANISOU 1878 OD2BASP A 121	2885 4527 6492 -46 -451 43	O
ATOM 1879 H AASP A 121	-8.151 -32.304 -28.258 0.63 34.15	H
ATOM 1880 H BASP A 121	-8.132 -32.337 -28.254 0.37 34.25	H
ATOM 1881 HA AASP A 121	-8.186 -31.188 -25.853 0.63 35.79	H
ATOM 1882 HA BASP A 121	-8.155 -31.187 -25.857 0.37 35.83	H
ATOM 1883 HB2AASP A 121	-10.001 -33.058 -26.946 0.63 39.63	H
ATOM 1884 HB2BASP A 121	-10.156 -31.406 -27.040 0.37 39.52	H
ATOM 1885 HB3AASP A 121	-10.257 -32.240 -25.608 0.63 39.63	H
ATOM 1886 HB3BASP A 121	-10.029 -32.989 -26.964 0.37 39.52	H
ATOM 1887 N ARG A 122	-7.321 -34.241 -26.026 1.00 28.67	N
ANISOU 1887 N ARG A 122	2286 3313 5293 7 -542 -41	N
ATOM 1888 CA ARG A 122	-6.855 -35.410 -25.281 1.00 26.50	C
ANISOU 1888 CA ARG A 122	1984 2961 5124 -82 -457 80	C
ATOM 1889 C ARG A 122	-5.496 -35.821 -25.837 1.00 23.95	C
ANISOU 1889 C ARG A 122	1861 2562 4678 -42 -490 33	C
ATOM 1890 O ARG A 122	-5.413 -36.636 -26.760 1.00 24.35	O
ANISOU 1890 O ARG A 122	1962 2473 4815 -54 -627 -60	O
ATOM 1891 CB ARG A 122	-7.864 -36.545 -25.368 1.00 28.84	C
ANISOU 1891 CB ARG A 122	2125 3130 5704 -193 -528 95	C
ATOM 1892 CG ARG A 122	-7.447 -37.786 -24.598 1.00 30.24	C
ANISOU 1892 CG ARG A 122	2276 3211 6005 -281 -433 234	C
ATOM 1893 H ARG A 122	-7.249 -34.331 -26.878 1.00 34.40	H
ATOM 1894 HA ARG A 122	-6.744 -35.173 -24.347 1.00 31.80	H
ATOM 1895 HB2 ARG A 122	-8.711 -36.240 -25.006 1.00 34.61	H
ATOM 1896 HB3 ARG A 122	-7.975 -36.795 -26.299 1.00 34.61	H
ATOM 1897 N THR A 123	-4.435 -35.270 -25.258 1.00 21.78	N
ANISOU 1897 N THR A 123	1692 2375 4208 10 -368 95	N
ATOM 1898 CA THR A 123	-3.080 -35.540 -25.707 1.00 20.68	C
ANISOU 1898 CA THR A 123	1728 2182 3946 58 -376 66	C
ATOM 1899 C THR A 123	-2.214 -35.870 -24.502 1.00 19.59	C
ANISOU 1899 C THR A 123	1599 2085 3761 34 -226 212	C
ATOM 1900 O THR A 123	-2.564 -35.571 -23.356 1.00 19.99	O
ANISOU 1900 O THR A 123	1554 2235 3806 11 -110 321	O
ATOM 1901 CB THR A 123	-2.498 -34.341 -26.471 1.00 20.32	C
ANISOU 1901 CB THR A 123	1823 2203 3694 171 -403 -31	C
ATOM 1902 OG1 THR A 123	-2.453 -33.203 -25.609 1.00 19.70	O

ANISOU 1902	OG1 THR A 123	1720	2267	3500	198	-290	27	O
ATOM 1903	CG2 THR A 123	-3.371	-34.007	-27.684	1.00	21.43		C
ANISOU 1903	CG2 THR A 123	1967	2312	3862	218	-557	-172	C
ATOM 1904	H THR A 123	-4.477	-34.728	-24.591	1.00	26.13		H
ATOM 1905	HA THR A 123	-3.084	-36.307	-26.300	1.00	24.81		H
ATOM 1906	HB THR A 123	-1.603	-34.553	-26.780	1.00	24.38		H
ATOM 1907	HG1 THR A 123	-3.228	-33.012	-25.344	1.00	23.65		H
ATOM 1908	HG21 THR A 123	-2.998	-33.249	-28.162	1.00	25.71		H
ATOM 1909	HG22 THR A 123	-3.411	-34.768	-28.283	1.00	25.71		H
ATOM 1910	HG23 THR A 123	-4.270	-33.785	-27.394	1.00	25.71		H
ATOM 1911	N THR A 124	-1.074	-36.495	-24.769	1.00	18.36		N
ANISOU 1911	N THR A 124	1561	1856	3559	53	-229	214	N
ATOM 1912	CA THR A 124	-0.112	-36.832	-23.732	1.00	17.08		C
ANISOU 1912	CA THR A 124	1422	1729	3337	48	-107	342	C
ATOM 1913	C THR A 124	1.204	-36.142	-24.054	1.00	15.94		C
ANISOU 1913	C THR A 124	1421	1632	3002	134	-91	300	C
ATOM 1914	O THR A 124	1.667	-36.188	-25.197	1.00	16.84		O
ANISOU 1914	O THR A 124	1641	1676	3081	185	-171	202	O
ATOM 1915	CB THR A 124	0.061	-38.351	-23.630	1.00	18.24		C
ANISOU 1915	CB THR A 124	1557	1734	3641	-14	-114	407	C
ATOM 1916	OG1 THR A 124	-1.194	-38.945	-23.274	1.00	19.62		O
ANISOU 1916	OG1 THR A 124	1575	1857	4022	-105	-116	462	O
ATOM 1917	CG2 THR A 124	1.091	-38.712	-22.576	1.00	18.07		C
ANISOU 1917	CG2 THR A 124	1566	1754	3545	-2	7	543	C
ATOM 1918	H THR A 124	-0.832	-36.739	-25.557	1.00	22.03		H
ATOM 1919	HA THR A 124	-0.430	-36.501	-22.877	1.00	20.49		H
ATOM 1920	HB THR A 124	0.357	-38.703	-24.485	1.00	21.89		H
ATOM 1921	HG1 THR A 124	-1.771	-38.768	-23.859	1.00	23.54		H
ATOM 1922	HG21 THR A 124	1.188	-39.676	-22.524	1.00	21.68		H
ATOM 1923	HG22 THR A 124	1.948	-38.320	-22.802	1.00	21.68		H
ATOM 1924	HG23 THR A 124	0.809	-38.377	-21.710	1.00	21.68		H
ATOM 1925	N PHE A 125	1.794	-35.485	-23.060	1.00	14.89		N
ANISOU 1925	N PHE A 125	1290	1619	2751	158	10	373	N
ATOM 1926	CA PHE A 125	2.966	-34.670	-23.327	1.00	14.84		C
ANISOU 1926	CA PHE A 125	1390	1659	2591	229	23	333	C
ATOM 1927	C PHE A 125	3.777	-34.483	-22.058	1.00	14.39		C
ANISOU 1927	C PHE A 125	1322	1696	2447	239	117	430	C
ATOM 1928	O PHE A 125	3.247	-34.502	-20.943	1.00	14.90		O
ANISOU 1928	O PHE A 125	1307	1837	2519	215	181	512	O
ATOM 1929	CB PHE A 125	2.585	-33.298	-23.916	1.00	14.00		C
ANISOU 1929	CB PHE A 125	1306	1612	2401	278	-9	236	C
ATOM 1930	CG PHE A 125	1.582	-32.530	-23.094	1.00	14.96		C
ANISOU 1930	CG PHE A 125	1330	1839	2516	263	31	256	C
ATOM 1931	CD1 PHE A 125	0.221	-32.708	-23.292	1.00	15.61		C
ANISOU 1931	CD1 PHE A 125	1317	1905	2707	228	-11	237	C
ATOM 1932	CD2 PHE A 125	1.999	-31.622	-22.135	1.00	14.87		C
ANISOU 1932	CD2 PHE A 125	1318	1939	2392	292	103	288	C
ATOM 1933	CE1 PHE A 125	-0.706	-32.001	-22.537	1.00	16.51		C
ANISOU 1933	CE1 PHE A 125	1336	2123	2816	227	39	263	C
ATOM 1934	CE2 PHE A 125	1.081	-30.914	-21.380	1.00	15.49		C
ANISOU 1934	CE2 PHE A 125	1318	2116	2451	297	144	302	C
ATOM 1935	CZ PHE A 125	-0.273	-31.110	-21.580	1.00	16.47		C
ANISOU 1935	CZ PHE A 125	1347	2232	2681	268	121	296	C

ATOM	1936	H	PHE A 125	1.539	-35.495	-22.239	1.00	17.87	H	
ATOM	1937	HA	PHE A 125	3.525	-35.127	-23.975	1.00	17.81	H	
ATOM	1938	HB2	PHE A 125	3.386	-32.756	-23.986	1.00	16.80	H	
ATOM	1939	HB3	PHE A 125	2.202	-33.433	-24.797	1.00	16.80	H	
ATOM	1940	HD1	PHE A 125	-0.075	-33.314	-23.933	1.00	18.73	H	
ATOM	1941	HD2	PHE A 125	2.909	-31.491	-21.992	1.00	17.84	H	
ATOM	1942	HE1	PHE A 125	-1.616	-32.132	-22.675	1.00	19.82	H	
ATOM	1943	HE2	PHE A 125	1.375	-30.311	-20.736	1.00	18.59	H	
ATOM	1944	HZ	PHE A 125	-0.892	-30.632	-21.076	1.00	19.77	H	
ATOM	1945	N	THR A 126	5.075	-34.294	-22.260	1.00	12.84	N	
ANISOU	1945	N	THR A 126	1209	1500	2170	284	124	420	N
ATOM	1946	CA	THR A 126	5.999	-33.966	-21.189	1.00	12.61	C	
ANISOU	1946	CA	THR A 126	1179	1562	2051	306	184	484	C
ATOM	1947	C	THR A 126	5.892	-32.487	-20.816	1.00	11.44	C	
ANISOU	1947	C	THR A 126	1022	1521	1805	335	195	432	C
ATOM	1948	O	THR A 126	5.599	-31.625	-21.654	1.00	11.20	O	
ANISOU	1948	O	THR A 126	1020	1477	1758	354	161	345	O
ATOM	1949	CB	THR A 126	7.423	-34.318	-21.627	1.00	12.87	C	
ANISOU	1949	CB	THR A 126	1285	1545	2062	342	179	488	C
ATOM	1950	OG1	THR A 126	7.504	-35.730	-21.849	1.00	15.12	O	
ANISOU	1950	OG1	THR A 126	1582	1727	2437	324	172	538	O
ATOM	1951	CG2	THR A 126	8.464	-33.902	-20.583	1.00	13.87	C	
ANISOU	1951	CG2	THR A 126	1402	1766	2104	369	217	537	C
ATOM	1952	H	THR A 126	5.452	-34.352	-23.030	1.00	15.41	H	
ATOM	1953	HA	THR A 126	5.781	-34.494	-20.405	1.00	15.13	H	
ATOM	1954	HB	THR A 126	7.624	-33.854	-22.455	1.00	15.45	H	
ATOM	1955	HG1	THR A 126	8.281	-35.939	-22.090	1.00	18.15	H	
ATOM	1956	HG21	THR A 126	9.353	-34.138	-20.890	1.00	16.65	H	
ATOM	1957	HG22	THR A 126	8.425	-32.943	-20.440	1.00	16.65	H	
ATOM	1958	HG23	THR A 126	8.290	-34.354	-19.743	1.00	16.65	H	
ATOM	1959	N	GLN A 127	6.144	-32.206	-19.539	1.00	11.76	N	
ANISOU	1959	N	GLN A 127	1031	1663	1773	349	239	486	N
ATOM	1960	CA	GLN A 127	6.183	-30.851	-19.002	1.00	12.41	C	
ANISOU	1960	CA	GLN A 127	1114	1843	1760	384	242	433	C
ATOM	1961	C	GLN A 127	7.530	-30.597	-18.336	1.00	12.28	C	
ANISOU	1961	C	GLN A 127	1121	1871	1671	416	239	444	C
ATOM	1962	O	GLN A 127	7.985	-31.410	-17.521	1.00	14.64	O	
ANISOU	1962	O	GLN A 127	1409	2201	1954	424	261	528	O
ATOM	1963	CB	GLN A 127	5.072	-30.628	-17.976	1.00	13.88	C	
ANISOU	1963	CB	GLN A 127	1236	2127	1912	392	288	469	C
ATOM	1964	CG	GLN A 127	3.668	-30.887	-18.470	1.00	15.62	C	
ANISOU	1964	CG	GLN A 127	1398	2313	2223	357	292	469	C
ATOM	1965	CD	GLN A 127	2.654	-30.842	-17.337	1.00	17.65	C	
ANISOU	1965	CD	GLN A 127	1576	2671	2459	371	365	539	C
ATOM	1966	OE1	GLN A 127	2.688	-31.677	-16.426	1.00	19.16	O	
ANISOU	1966	OE1	GLN A 127	1736	2895	2650	370	427	654	O
ATOM	1967	NE2	GLN A 127	1.752	-29.865	-17.378	1.00	18.77	N	
ANISOU	1967	NE2	GLN A 127	1688	2866	2577	395	367	479	N
ATOM	1968	H	GLN A 127	6.301	-32.808	-18.945	1.00	14.11	H	
ATOM	1969	HA	GLN A 127	6.070	-30.213	-19.724	1.00	14.90	H	
ATOM	1970	HB2	GLN A 127	5.229	-31.218	-17.222	1.00	16.66	H	
ATOM	1971	HB3	GLN A 127	5.111	-29.705	-17.678	1.00	16.66	H	
ATOM	1972	HG2	GLN A 127	3.428	-30.207	-19.119	1.00	18.74	H	

ATOM 1973 HG3 GLN A 127	3.630 -31.767 -18.876	1.00 18.74	H
ATOM 1974 HE21 GLN A 127	1.762 -29.298 -18.025	1.00 22.52	H
ATOM 1975 HE22 GLN A 127	1.159 -29.800 -16.759	1.00 22.52	H
ATOM 1976 N TYR A 128	8.147 -29.460 -18.656	1.00 11.15	N
ANISOU 1976 N TYR A 128	1008 1731 1497	436 208 363	N
ATOM 1977 CA TYR A 128	9.375 -29.003 -18.010	1.00 11.43	C
ANISOU 1977 CA TYR A 128	1049 1809 1486	461 185 352	C
ATOM 1978 C TYR A 128	9.031 -27.833 -17.098	1.00 11.46	C
ANISOU 1978 C TYR A 128	1043 1904 1408	492 169 290	C
ATOM 1979 O TYR A 128	8.339 -26.901 -17.520	1.00 10.05	O
ANISOU 1979 O TYR A 128	875 1716 1230	494 166 221	O
ATOM 1980 CB TYR A 128	10.424 -28.540 -19.026	1.00 11.40	C
ANISOU 1980 CB TYR A 128	1072 1723 1535	458 165 309	C
ATOM 1981 CG TYR A 128	10.965 -29.581 -19.988	1.00 11.24	C
ANISOU 1981 CG TYR A 128	1076 1612 1581	452 182 358	C
ATOM 1982 CD1 TYR A 128	10.757 -30.936 -19.786	1.00 12.10	C
ANISOU 1982 CD1 TYR A 128	1182 1707 1710	443 198 433	C
ATOM 1983 CD2 TYR A 128	11.686 -29.190 -21.109	1.00 11.26	C
ANISOU 1983 CD2 TYR A 128	1111 1539 1628	465 189 331	C
ATOM 1984 CE1 TYR A 128	11.259 -31.881 -20.679	1.00 12.26	C
ANISOU 1984 CE1 TYR A 128	1237 1634 1788	449 207 464	C
ATOM 1985 CE2 TYR A 128	12.192 -30.123 -22.001	1.00 10.79	C
ANISOU 1985 CE2 TYR A 128	1087 1402 1612	482 209 369	C
ATOM 1986 CZ TYR A 128	11.969 -31.467 -21.781	1.00 10.63	C
ANISOU 1986 CZ TYR A 128	1069 1365 1606	475 211 427	C
ATOM 1987 OH TYR A 128	12.466 -32.400 -22.664	1.00 11.28	O
ANISOU 1987 OH TYR A 128	1196 1361 1729	502 225 453	O
ATOM 1988 H TYR A 128	7.863 -28.921 -19.263	1.00 13.38	H
ATOM 1989 HA TYR A 128	9.751 -29.719 -17.474	1.00 13.72	H
ATOM 1990 HB2 TYR A 128	10.032 -27.833 -19.562	1.00 13.67	H
ATOM 1991 HB3 TYR A 128	11.181 -28.185 -18.535	1.00 13.67	H
ATOM 1992 HD1 TYR A 128	10.276 -31.219 -19.043	1.00 14.52	H
ATOM 1993 HD2 TYR A 128	11.837 -28.286 -21.262	1.00 13.51	H
ATOM 1994 HE1 TYR A 128	11.111 -32.788 -20.532	1.00 14.71	H
ATOM 1995 HE2 TYR A 128	12.672 -29.845 -22.747	1.00 12.95	H
ATOM 1996 HH TYR A 128	12.876 -32.015 -23.288	1.00 13.53	H
ATOM 1997 N TRP A 129	9.531 -27.866 -15.862	1.00 12.11	N
ANISOU 1997 N TRP A 129	1115 2076 1412	529 152 309	N
ATOM 1998 CA TRP A 129	9.220 -26.845 -14.873	1.00 13.37	C
ANISOU 1998 CA TRP A 129	1279 2329 1473	578 127 242	C
ATOM 1999 C TRP A 129	10.486 -26.217 -14.305	1.00 13.63	C
ANISOU 1999 C TRP A 129	1316 2384 1480	603 46 178	C
ATOM 2000 O TRP A 129	11.454 -26.918 -13.989	1.00 13.73	O
ANISOU 2000 O TRP A 129	1314 2405 1495	609 22 228	O
ATOM 2001 CB TRP A 129	8.415 -27.419 -13.689	1.00 16.00	C
ANISOU 2001 CB TRP A 129	1599 2774 1705	630 179 318	C
ATOM 2002 CG TRP A 129	7.108 -28.054 -14.036	1.00 16.43	C
ANISOU 2002 CG TRP A 129	1623 2815 1805	603 258 390	C
ATOM 2003 CD1 TRP A 129	6.913 -29.326 -14.501	1.00 16.92	C
ANISOU 2003 CD1 TRP A 129	1660 2813 1955	555 300 490	C
ATOM 2004 CD2 TRP A 129	5.806 -27.474 -13.898	1.00 17.67	C
ANISOU 2004 CD2 TRP A 129	1759 3018 1937	624 300 368	C
ATOM 2005 NE1 TRP A 129	5.571 -29.564 -14.677	1.00 18.02	N

ANISOU 2005	NE1 TRP A 129	1755	2949	2141	534	356	527	N
ATOM 2006	CE2 TRP A 129	4.870	-28.441	-14.319	1.00	17.76		C
ANISOU 2006	CE2 TRP A 129	1719	2990	2039	578	362	458	C
ATOM 2007	CE3 TRP A 129	5.339	-26.225	-13.475	1.00	18.07		C
ANISOU 2007	CE3 TRP A 129	1826	3132	1907	681	288	276	C
ATOM 2008	CZ2 TRP A 129	3.503	-28.201	-14.323	1.00	18.58		C
ANISOU 2008	CZ2 TRP A 129	1772	3125	2163	584	413	466	C
ATOM 2009	CZ3 TRP A 129	3.985	-25.985	-13.488	1.00	19.05		C
ANISOU 2009	CZ3 TRP A 129	1913	3290	2035	697	346	286	C
ATOM 2010	CH2 TRP A 129	3.079	-26.970	-13.909	1.00	19.14		C
ANISOU 2010	CH2 TRP A 129	1857	3270	2144	647	409	384	C
ATOM 2011	H TRP A 129	10.059	-28.480	-15.572	1.00	14.54		H
ATOM 2012	HA TRP A 129	8.693	-26.145	-15.290	1.00	16.05		H
ATOM 2013	HB2 TRP A 129	8.957	-28.093	-13.250	1.00	19.20		H
ATOM 2014	HB3 TRP A 129	8.231	-26.698	-13.067	1.00	19.20		H
ATOM 2015	HD1 TRP A 129	7.590	-29.940	-14.672	1.00	20.30		H
ATOM 2016	HE1 TRP A 129	5.228	-30.296	-14.969	1.00	21.62		H
ATOM 2017	HE3 TRP A 129	5.934	-25.566	-13.197	1.00	21.68		H
ATOM 2018	HZ2 TRP A 129	2.899	-28.849	-14.605	1.00	22.30		H
ATOM 2019	HZ3 TRP A 129	3.664	-25.159	-13.207	1.00	22.86		H
ATOM 2020	HH2 TRP A 129	2.169	-26.781	-13.903	1.00	22.97		H
ATOM 2021	N SER A 130	10.456	-24.892	-14.170	1.00	12.07		N
ANISOU 2021	N SER A 130	1132	2188	1265	619	-2	64	N
ATOM 2022	CA SER A 130	11.286	-24.151	-13.223	1.00	13.02		C
ANISOU 2022	CA SER A 130	1256	2357	1334	661	-97	-22	C
ATOM 2023	C SER A 130	10.339	-23.464	-12.249	1.00	13.69		C
ANISOU 2023	C SER A 130	1376	2540	1286	739	-101	-84	C
ATOM 2024	O SER A 130	9.445	-22.721	-12.675	1.00	14.11		O
ANISOU 2024	O SER A 130	1445	2565	1350	736	-69	-132	O
ATOM 2025	CB SER A 130	12.166	-23.104	-13.918	1.00	12.96		C
ANISOU 2025	CB SER A 130	1234	2242	1449	614	-158	-113	C
ATOM 2026	OG SER A 130	13.224	-23.682	-14.645	1.00	12.38		O
ANISOU 2026	OG SER A 130	1121	2094	1487	563	-154	-55	O
ATOM 2027	H SER A 130	9.942	-24.383	-14.634	1.00	14.48		H
ATOM 2028	HA SER A 130	11.854	-24.763	-12.731	1.00	15.63		H
ATOM 2029	HB2 SER A 130	11.614	-22.592	-14.529	1.00	15.56		H
ATOM 2030	HB3 SER A 130	12.538	-22.516	-13.243	1.00	15.56		H
ATOM 2031	HG SER A 130	13.717	-24.127	-14.130	1.00	14.85		H
ATOM 2032	N VAL A 131	10.528	-23.706	-10.954	1.00	14.79		N
ANISOU 2032	N VAL A 131	1533	2798	1290	822	-137	-81	N
ATOM 2033	CA VAL A 131	9.689	-23.122	-9.911	1.00	16.08		C
ANISOU 2033	CA VAL A 131	1741	3072	1297	926	-134	-134	C
ATOM 2034	C VAL A 131	10.590	-22.353	-8.951	1.00	17.37		C
ANISOU 2034	C VAL A 131	1936	3281	1384	995	-275	-265	C
ATOM 2035	O VAL A 131	11.498	-22.936	-8.346	1.00	17.66		O
ANISOU 2035	O VAL A 131	1965	3367	1379	1026	-338	-239	O
ATOM 2036	CB VAL A 131	8.884	-24.192	-9.157	1.00	16.90		C
ANISOU 2036	CB VAL A 131	1848	3293	1279	993	-29	6	C
ATOM 2037	CG1 VAL A 131	7.959	-23.540	-8.151	1.00	17.51		C
ANISOU 2037	CG1 VAL A 131	1972	3489	1192	1115	-3	-40	C
ATOM 2038	CG2 VAL A 131	8.083	-25.066	-10.128	1.00	15.88		C
ANISOU 2038	CG2 VAL A 131	1672	3099	1263	910	88	129	C
ATOM 2039	H VAL A 131	11.149	-24.216	-10.648	1.00	17.75		H

ATOM	2040	HA	VAL A 131	9.065 -22.497 -10.312	1.00 19.29	H
ATOM	2041	HB	VAL A 131	9.498 -24.766 -8.673	1.00 20.28	H
ATOM	2042	HG11	VAL A 131	7.461 -24.231 -7.687	1.00 21.01	H
ATOM	2043	HG12	VAL A 131	8.490 -23.032 -7.518	1.00 21.01	H
ATOM	2044	HG13	VAL A 131	7.349 -22.950 -8.620	1.00 21.01	H
ATOM	2045	HG21	VAL A 131	7.588 -25.729 -9.620	1.00 19.06	H
ATOM	2046	HG22	VAL A 131	7.469 -24.504 -10.626	1.00 19.06	H
ATOM	2047	HG23	VAL A 131	8.697 -25.506 -10.736	1.00 19.06	H
ATOM	2048	N	ARG A 132	10.324 -21.055 -8.790	1.00 18.20	N
ANISOU	2048	N	ARG A 132	2077 3367 1472	1027 -334 -410	N
ATOM	2049	CA	ARG A 132	11.157 -20.227 -7.927	1.00 18.85	C
ANISOU	2049	CA	ARG A 132	2190 3470 1502	1089 -493 -563	C
ATOM	2050	C	ARG A 132	11.127 -20.772 -6.503	1.00 20.30	C
ANISOU	2050	C	ARG A 132	2425 3826 1463	1234 -518 -541	C
ATOM	2051	O	ARG A 132	10.084 -21.208 -6.013	1.00 21.06	O
ANISOU	2051	O	ARG A 132	2555 4030 1417	1319 -402 -454	O
ATOM	2052	CB	ARG A 132	10.676 -18.774 -7.954	1.00 19.28	C
ANISOU	2052	CB	ARG A 132	2289 3470 1567	1113 -540 -721	C
ATOM	2053	CG	ARG A 132	11.777 -17.757 -7.700	1.00 20.43	C
ANISOU	2053	CG	ARG A 132	2432 3535 1795	1099 -720 -894	C
ATOM	2054	CD	ARG A 132	11.255 -16.345 -7.837	1.00 21.60	C
ANISOU	2054	CD	ARG A 132	2627 3601 1978	1115 -754 -1041	C
ATOM	2055	NE	ARG A 132	12.297 -15.323 -7.729	1.00 22.86	N
ANISOU	2055	NE	ARG A 132	2772 3644 2269	1078 -927 -1207	N
ATOM	2056	CZ	ARG A 132	12.693 -14.752 -6.593	1.00 25.34	C
ANISOU	2056	CZ	ARG A 132	3130 3986 2512	1164 -1064 -1342	C
ATOM	2057	NH1	ARG A 132	12.158 -15.109 -5.431	1.00 25.76	N
ANISOU	2057	NH1	ARG A 132	3247 4176 2363	1297 -1026 -1307	N
ATOM	2058	NH2	ARG A 132	13.636 -13.819 -6.616	1.00 27.26	N
ANISOU	2058	NH2	ARG A 132	3339 4088 2929	1104 -1207 -1474	N
ATOM	2059	H	ARG A 132	9.674 -20.636 -9.167	1.00 21.84	H
ATOM	2060	HA	ARG A 132	12.073 -20.252 -8.244	1.00 22.62	H
ATOM	2061	HB2	ARG A 132	10.296 -18.587 -8.827	1.00 23.14	H
ATOM	2062	HB3	ARG A 132	10.000 -18.656 -7.269	1.00 23.14	H
ATOM	2063	HG2	ARG A 132	12.117 -17.870 -6.798	1.00 24.52	H
ATOM	2064	HG3	ARG A 132	12.488 -17.884 -8.347	1.00 24.52	H
ATOM	2065	HD2	ARG A 132	10.834 -16.249 -8.705	1.00 25.92	H
ATOM	2066	HD3	ARG A 132	10.604 -16.182 -7.136	1.00 25.92	H
ATOM	2067	HE	ARG A 132	12.683 -15.071 -8.455	1.00 27.43	H
ATOM	2068	HH11	ARG A 132	11.543 -15.709 -5.407	1.00 30.91	H
ATOM	2069	HH12	ARG A 132	12.424 -14.736 -4.703	1.00 30.91	H
ATOM	2070	HH21	ARG A 132	13.992 -13.586 -7.364	1.00 32.71	H
ATOM	2071	HH22	ARG A 132	13.901 -13.456 -5.883	1.00 32.71	H
ATOM	2072	N	GLN A 133	12.287 -20.761 -5.841	1.00 21.38	N
ANISOU	2072	N	GLN A 133	2559 3988 1575	1270 -666 -613	N
ATOM	2073	CA	GLN A 133	12.369 -21.322 -4.495	1.00 23.06	C
ANISOU	2073	CA	GLN A 133	2821 4306 1633	1385 -654 -572	C
ATOM	2074	C	GLN A 133	11.605 -20.469 -3.489	1.00 25.11	C
ANISOU	2074	C	GLN A 133	3160 4613 1767	1509 -651 -666	C
ATOM	2075	O	GLN A 133	11.102 -20.988 -2.487	1.00 25.56	O
ANISOU	2075	O	GLN A 133	3258 4774 1678	1625 -574 -587	O
ATOM	2076	CB	GLN A 133	13.833 -21.477 -4.075	1.00 23.89	C
ANISOU	2076	CB	GLN A 133	2900 4388 1788	1372 -800 -626	C

ATOM 2077 CG GLN A 133	14.596 -22.505 -4.908 1.00 22.65	C
ANISOU 2077 CG GLN A 133	2658 4194 1753 1273 -784 -499	C
ATOM 2078 CD GLN A 133	15.974 -22.827 -4.351 1.00 24.31	C
ANISOU 2078 CD GLN A 133	2839 4400 1997 1277 -906 -525	C
ATOM 2079 OE1 GLN A 133	16.623 -21.987 -3.714 1.00 26.17	O
ANISOU 2079 OE1 GLN A 133	3087 4613 2242 1304 -1051 -680	O
ATOM 2080 NE2 GLN A 133	16.417 -24.061 -4.565 1.00 23.29	N
ANISOU 2080 NE2 GLN A 133	2670 4288 1891 1254 -850 -373	N
ATOM 2081 H GLN A 133	13.026 -20.442 -6.144 1.00 25.65	H
ATOM 2082 HA GLN A 133	11.967 -22.205 -4.499 1.00 27.67	H
ATOM 2083 HB2 GLN A 133	14.280 -20.622 -4.174 1.00 28.66	H
ATOM 2084 HB3 GLN A 133	13.865 -21.760 -3.148 1.00 28.66	H
ATOM 2085 HG2 GLN A 133	14.085 -23.329 -4.935 1.00 27.18	H
ATOM 2086 HG3 GLN A 133	14.711 -22.158 -5.806 1.00 27.18	H
ATOM 2087 HE21 GLN A 133	15.931 -24.623 -4.998 1.00 27.95	H
ATOM 2088 HE22 GLN A 133	17.190 -24.297 -4.272 1.00 27.95	H
ATOM 2089 N SER A 134	11.511 -19.170 -3.732 1.00 25.79	N
ANISOU 2089 N SER A 134	3264 4616 1919 1491 -730 -824	N
ATOM 2090 CA SER A 134	10.684 -18.288 -2.930 1.00 28.16	C
ANISOU 2090 CA SER A 134	3633 4942 2123 1604 -721 -903	C
ATOM 2091 C SER A 134	9.892 -17.397 -3.869 1.00 26.54	C
ANISOU 2091 C SER A 134	3423 4651 2012 1543 -680 -952	C
ATOM 2092 O SER A 134	10.331 -17.100 -4.984 1.00 23.58	O
ANISOU 2092 O SER A 134	3004 4168 1788 1421 -721 -996	O
ATOM 2093 CB SER A 134	11.524 -17.444 -1.965 1.00 31.45	C
ANISOU 2093 CB SER A 134	4095 5333 2522 1674 -896 -1075	C
ATOM 2094 OG SER A 134	12.394 -16.583 -2.676 1.00 32.97	O
ANISOU 2094 OG SER A 134	4248 5380 2900 1561 -1035 -1213	O
ATOM 2095 H SER A 134	11.926 -18.769 -4.370 1.00 30.95	H
ATOM 2096 HA SER A 134	10.060 -18.817 -2.409 1.00 33.79	H
ATOM 2097 HB2 SER A 134	10.931 -16.910 -1.415 1.00 37.74	H
ATOM 2098 HB3 SER A 134	12.053 -18.035 -1.406 1.00 37.74	H
ATOM 2099 HG SER A 134	12.849 -16.126 -2.138 1.00 39.57	H
ATOM 2100 N LYS A 135	8.707 -16.998 -3.420 1.00 27.22	N
ANISOU 2100 N LYS A 135	3550 4782 2011 1631 -595 -932	N
ATOM 2101 CA LYS A 135	7.832 -16.197 -4.260 1.00 26.79	C
ANISOU 2101 CA LYS A 135	3490 4651 2039 1582 -541 -958	C
ATOM 2102 C LYS A 135	8.505 -14.880 -4.618 1.00 27.01	C
ANISOU 2102 C LYS A 135	3534 4533 2194 1531 -687 -1142	C
ATOM 2103 O LYS A 135	9.034 -14.174 -3.753 1.00 28.08	O
ANISOU 2103 O LYS A 135	3713 4651 2304 1597 -814 -1268	O
ATOM 2104 CB LYS A 135	6.506 -15.941 -3.551 1.00 28.01	C
ANISOU 2104 CB LYS A 135	3682 4882 2080 1694 -445 -905	C
ATOM 2105 CG LYS A 135	5.641 -17.175 -3.435 1.00 27.95	C
ANISOU 2105 CG LYS A 135	3636 4982 2003 1714 -279 -704	C
ATOM 2106 CD LYS A 135	4.319 -16.833 -2.782 1.00 29.45	C
ANISOU 2106 CD LYS A 135	3849 5234 2104 1817 -190 -654	C
ATOM 2107 CE LYS A 135	3.530 -18.083 -2.449 1.00 30.65	C
ANISOU 2107 CE LYS A 135	3959 5489 2198 1847 -34 -450	C
ATOM 2108 NZ LYS A 135	2.264 -17.751 -1.743 1.00 32.19	N
ANISOU 2108 NZ LYS A 135	4173 5750 2309 1956 52 -399	N
ATOM 2109 H LYS A 135	8.390 -17.176 -2.641 1.00 32.66	H
ATOM 2110 HA LYS A 135	7.650 -16.679 -5.082 1.00 32.15	H

ATOM	2111	HB2	LYS	A	135	6.687	-15.618	-2.655	1.00	33.62	H
ATOM	2112	HB3	LYS	A	135	6.008	-15.274	-4.049	1.00	33.62	H
ATOM	2113	HG2	LYS	A	135	5.464	-17.531	-4.319	1.00	33.54	H
ATOM	2114	HG3	LYS	A	135	6.092	-17.836	-2.887	1.00	33.54	H
ATOM	2115	HD2	LYS	A	135	4.484	-16.348	-1.959	1.00	35.33	H
ATOM	2116	HD3	LYS	A	135	3.791	-16.293	-3.391	1.00	35.33	H
ATOM	2117	HE2	LYS	A	135	3.307	-18.550	-3.270	1.00	36.78	H
ATOM	2118	HE3	LYS	A	135	4.061	-18.653	-1.871	1.00	36.78	H
ATOM	2119	HZ1	LYS	A	135	1.816	-18.497	-1.556	1.00	38.63	H
ATOM	2120	HZ2	LYS	A	135	2.443	-17.324	-0.983	1.00	38.63	H
ATOM	2121	HZ3	LYS	A	135	1.757	-17.230	-2.256	1.00	38.63	H
ATOM	2122	N	ARG	A	136	8.480	-14.561	-5.892	1.00	24.97	N
ANISOU	2122	N	ARG	A	136	3239	4164	2083	1415	-666 -1154	N
ATOM	2123	CA	ARG	A	136	9.114	-13.351	-6.388	1.00	24.99	C
ANISOU	2123	CA	ARG	A	136	3244	4003	2247	1348	-784 -1305	C
ATOM	2124	C	ARG	A	136	8.273	-12.131	-6.021	1.00	26.19	C
ANISOU	2124	C	ARG	A	136	3456	4117	2380	1416	-787 -1376	C
ATOM	2125	O	ARG	A	136	7.055	-12.148	-6.222	1.00	26.32	O
ANISOU	2125	O	ARG	A	136	3482	4178	2340	1445	-662 -1291	O
ATOM	2126	CB	ARG	A	136	9.271	-13.437	-7.901	1.00	23.60	C
ANISOU	2126	CB	ARG	A	136	3017	3716	2236	1218	-735 -1277	C
ATOM	2127	CG	ARG	A	136	10.162	-12.370	-8.487	1.00	23.32	C
ANISOU	2127	CG	ARG	A	136	2962	3490	2409	1128	-851 -1408	C
ATOM	2128	CD	ARG	A	136	10.413	-12.634	-9.959	1.00	20.50	C
ANISOU	2128	CD	ARG	A	136	2535	3012	2243	991	-764 -1305	C
ATOM	2129	NE	ARG	A	136	11.407	-11.711	-10.478	1.00	21.03	N
ANISOU	2129	NE	ARG	A	136	2562	2887	2539	894	-857 -1388	N
ATOM	2130	CZ	ARG	A	136	11.935	-11.790	-11.693	1.00	20.62	C
ANISOU	2130	CZ	ARG	A	136	2441	2707	2687	772	-792 -1289	C
ATOM	2131	NH1	ARG	A	136	11.568	-12.762	-12.512	1.00	19.30	N
ANISOU	2131	NH1	ARG	A	136	2247	2582	2502	737	-653 -1121	N
ATOM	2132	NH2	ARG	A	136	12.842	-10.900	-12.077	1.00	21.92	N
ANISOU	2132	NH2	ARG	A	136	2561	2695	3073	691	-868 -1357	N
ATOM	2133	H	ARG	A	136	8.099	-15.032	-6.502	1.00	29.96	H
ATOM	2134	HA	ARG	A	136	9.993	-13.254	-5.989	1.00	29.98	H
ATOM	2135	HB2	ARG	A	136	9.655	-14.299	-8.126	1.00	28.33	H
ATOM	2136	HB3	ARG	A	136	8.397	-13.351	-8.312	1.00	28.33	H
ATOM	2137	HG2	ARG	A	136	9.730	-11.506	-8.399	1.00	27.99	H
ATOM	2138	HG3	ARG	A	136	11.015	-12.372	-8.025	1.00	27.99	H
ATOM	2139	HD2	ARG	A	136	10.744	-13.539	-10.074	1.00	24.60	H
ATOM	2140	HD3	ARG	A	136	9.589	-12.509	-10.456	1.00	24.60	H
ATOM	2141	HE	ARG	A	136	11.684	-11.084	-9.959	1.00	25.23	H
ATOM	2142	HH11	ARG	A	136	10.981	-13.339	-12.260	1.00	23.16	H
ATOM	2143	HH12	ARG	A	136	11.911	-12.814	-13.299	1.00	23.16	H
ATOM	2144	HH21	ARG	A	136	13.080	-10.270	-11.542	1.00	26.31	H
ATOM	2145	HH22	ARG	A	136	13.187	-10.950	-12.863	1.00	26.31	H
ATOM	2146	N	PRO	A	137	8.876	-11.061	-5.495	1.00	26.36	N
ANISOU	2146	N	PRO	A	137	3509	4051	2454	1437	-931 -1528	N
ATOM	2147	CA	PRO	A	137	8.119	-9.817	-5.319	1.00	27.40	C
ANISOU	2147	CA	PRO	A	137	3698	4125	2588	1488	-937 -1599	C
ATOM	2148	C	PRO	A	137	7.500	-9.373	-6.635	1.00	25.87	C
ANISOU	2148	C	PRO	A	137	3484	3825	2521	1396	-842 -1553	C
ATOM	2149	O	PRO	A	137	8.061	-9.587	-7.712	1.00	24.54	O

ANISOU 2149 O PRO A 137	3263	3561	2502	1279	-831	-1531	O
ATOM 2150 CB PRO A 137	9.176	-8.819	-4.831	1.00	29.17		C
ANISOU 2150 CB PRO A 137	3939	4233	2913	1484	-1124	-1772	C
ATOM 2151 CG PRO A 137	10.256	-9.665	-4.219	1.00	30.26		C
ANISOU 2151 CG PRO A 137	4045	4434	3017	1491	-1213	-1783	C
ATOM 2152 CD PRO A 137	10.268	-10.932	-5.029	1.00	27.52		C
ANISOU 2152 CD PRO A 137	3637	4145	2673	1414	-1099	-1638	C
ATOM 2153 HA PRO A 137	7.429	-9.924	-4.646	1.00	32.88		H
ATOM 2154 HB2 PRO A 137	9.520	-8.313	-5.583	1.00	35.01		H
ATOM 2155 HB3 PRO A 137	8.786	-8.228	-4.168	1.00	35.01		H
ATOM 2156 HG2 PRO A 137	11.108	-9.207	-4.287	1.00	36.31		H
ATOM 2157 HG3 PRO A 137	10.040	-9.852	-3.292	1.00	36.31		H
ATOM 2158 HD2 PRO A 137	10.870	-10.844	-5.785	1.00	33.02		H
ATOM 2159 HD3 PRO A 137	10.508	-11.688	-4.470	1.00	33.02		H
ATOM 2160 N THR A 138	6.330	-8.752	-6.538	1.00	26.24		N
ANISOU 2160 N THR A 138	3575	3888	2508	1458	-772	-1534	N
ATOM 2161 CA THR A 138	5.608	-8.230	-7.690	1.00	25.14		C
ANISOU 2161 CA THR A 138	3426	3655	2471	1391	-681	-1487	C
ATOM 2162 C THR A 138	5.346	-6.738	-7.506	1.00	26.68		C
ANISOU 2162 C THR A 138	3680	3743	2712	1426	-740	-1597	C
ATOM 2163 O THR A 138	5.463	-6.190	-6.407	1.00	28.46		O
ANISOU 2163 O THR A 138	3960	3996	2858	1521	-833	-1699	O
ATOM 2164 CB THR A 138	4.277	-8.963	-7.892	1.00	24.16		C
ANISOU 2164 CB THR A 138	3283	3652	2246	1423	-524	-1337	C
ATOM 2165 OG1 THR A 138	3.493	-8.863	-6.696	1.00	26.37		O
ANISOU 2165 OG1 THR A 138	3605	4053	2359	1557	-509	-1337	O
ATOM 2166 CG2 THR A 138	4.520	-10.419	-8.239	1.00	23.55		C
ANISOU 2166 CG2 THR A 138	3142	3655	2151	1373	-458	-1221	C
ATOM 2167 H THR A 138	5.923	-8.617	-5.793	1.00	31.49		H
ATOM 2168 HA THR A 138	6.147	-8.349	-8.488	1.00	30.17		H
ATOM 2169 HB THR A 138	3.794	-8.552	-8.626	1.00	28.99		H
ATOM 2170 HG1 THR A 138	3.905	-9.211	-6.052	1.00	31.64		H
ATOM 2171 HG21 THR A 138	3.673	-10.875	-8.365	1.00	28.26		H
ATOM 2172 HG22 THR A 138	5.037	-10.482	-9.058	1.00	28.26		H
ATOM 2173 HG23 THR A 138	5.009	-10.853	-7.523	1.00	28.26		H
ATOM 2174 N GLY A 139	4.973	-6.085	-8.605	1.00	25.83		N
ANISOU 2174 N GLY A 139	3569	3514	2730	1357	-683	-1572	N
ATOM 2175 CA GLY A 139	4.668	-4.668	-8.618	1.00	27.08		C
ANISOU 2175 CA GLY A 139	3784	3558	2949	1380	-718	-1658	C
ATOM 2176 C GLY A 139	5.738	-3.814	-9.262	1.00	27.85		C
ANISOU 2176 C GLY A 139	3871	3448	3261	1279	-802	-1740	C
ATOM 2177 O GLY A 139	5.489	-2.633	-9.538	1.00	28.47		O
ANISOU 2177 O GLY A 139	3991	3402	3422	1277	-810	-1790	O
ATOM 2178 H GLY A 139	4.888	-6.458	-9.375	1.00	30.99		H
ATOM 2179 HA2 GLY A 139	3.838	-4.526	-9.100	1.00	32.50		H
ATOM 2180 HA3 GLY A 139	4.545	-4.361	-7.707	1.00	32.50		H
ATOM 2181 N SER A 140	6.925	-4.364	-9.481	1.00	27.55		N
ANISOU 2181 N SER A 140	3776	3366	3326	1195	-864	-1752	N
ATOM 2182 CA SER A 140	7.989	-3.690	-10.203	1.00	28.93		C
ANISOU 2182 CA SER A 140	3915	3336	3740	1081	-926	-1800	C
ATOM 2183 C SER A 140	8.282	-4.448	-11.488	1.00	26.80		C
ANISOU 2183 C SER A 140	3581	3022	3579	980	-825	-1676	C
ATOM 2184 O SER A 140	7.839	-5.582	-11.683	1.00	26.14		O

ANISOU 2184 O SER A 140	3478 3071 3383 997 -739 -1578	O
ATOM 2185 CB SER A 140	9.251 -3.584 -9.339 1.00 30.77	C
ANISOU 2185 CB SER A 140	4117 3533 4039 1065 -1101 -1926	C
ATOM 2186 OG SER A 140	9.033 -2.743 -8.224 1.00 32.85	O
ANISOU 2186 OG SER A 140	4449 3812 4221 1164 -1203 -2050	O
ATOM 2187 H SER A 140	7.141 -5.152 -9.213 1.00 33.06	H
ATOM 2188 HA SER A 140	7.702 -2.793 -10.436 1.00 34.71	H
ATOM 2189 HB2 SER A 140	9.492 -4.469 -9.024 1.00 36.92	H
ATOM 2190 HB3 SER A 140	9.970 -3.216 -9.876 1.00 36.92	H
ATOM 2191 HG SER A 140	9.732 -2.694 -7.760 1.00 39.42	H
ATOM 2192 N ASN A 141	9.022 -3.801 -12.384 1.00 27.15	N
ANISOU 2192 N ASN A 141	3591 2871 3852 879 -828 -1672	N
ATOM 2193 CA ASN A 141	9.400 -4.457 -13.626 1.00 25.18	C
ANISOU 2193 CA ASN A 141	3283 2562 3720 793 -729 -1548	C
ATOM 2194 C ASN A 141	10.271 -5.669 -13.317 1.00 25.55	C
ANISOU 2194 C ASN A 141	3261 2687 3761 763 -782 -1551	C
ATOM 2195 O ASN A 141	11.247 -5.574 -12.567 1.00 26.49	O
ANISOU 2195 O ASN A 141	3341 2781 3945 738 -921 -1651	O
ATOM 2196 CB ASN A 141	10.133 -3.483 -14.553 1.00 26.13	C
ANISOU 2196 CB ASN A 141	3375 2453 4100 696 -716 -1526	C
ATOM 2197 CG ASN A 141	9.229 -2.379 -15.080 1.00 26.02	C
ANISOU 2197 CG ASN A 141	3437 2359 4088 730 -635 -1496	C
ATOM 2198 OD1 ASN A 141	8.017 -2.416 -14.901 1.00 25.58	O
ANISOU 2198 OD1 ASN A 141	3444 2420 3853 818 -579 -1478	O
ATOM 2199 ND2 ASN A 141	9.820 -1.395 -15.747 1.00 27.63	N
ANISOU 2199 ND2 ASN A 141	3630 2364 4506 660 -623 -1478	N
ATOM 2200 H ASN A 141	9.313 -2.996 -12.297 1.00 32.58	H
ATOM 2201 HA ASN A 141	8.601 -4.765 -14.081 1.00 30.21	H
ATOM 2202 HB2 ASN A 141	10.861 -3.068 -14.064 1.00 31.35	H
ATOM 2203 HB3 ASN A 141	10.483 -3.974 -15.314 1.00 31.35	H
ATOM 2204 HD21 ASN A 141	9.350 -0.748 -16.064 1.00 33.16	H
ATOM 2205 HD22 ASN A 141	10.672 -1.404 -15.862 1.00 33.16	H
ATOM 2206 N ALA A 142	9.898 -6.815 -13.882 1.00 24.58	N
ANISOU 2206 N ALA A 142	3938 2440 2961 1344 -1743 -1007	N
ATOM 2207 CA ALA A 142	10.592 -8.069 -13.655 1.00 23.45	C
ANISOU 2207 CA ALA A 142	3676 2384 2849 1269 -1595 -971	C
ATOM 2208 C ALA A 142	11.005 -8.664 -14.991 1.00 23.09	C
ANISOU 2208 C ALA A 142	3647 2251 2874 1057 -1544 -848	C
ATOM 2209 O ALA A 142	10.376 -8.415 -16.020 1.00 23.75	O
ANISOU 2209 O ALA A 142	3825 2269 2930 1031 -1539 -784	O
ATOM 2210 CB ALA A 142	9.704 -9.067 -12.896 1.00 22.10	C
ANISOU 2210 CB ALA A 142	3401 2499 2496 1383 -1364 -999	C
ATOM 2211 H ALA A 142	9.227 -6.887 -14.414 1.00 29.50	H
ATOM 2212 HA ALA A 142	11.391 -7.907 -13.130 1.00 28.14	H
ATOM 2213 HB1 ALA A 142	10.199 -9.891 -12.763 1.00 26.52	H
ATOM 2214 HB2 ALA A 142	9.462 -8.685 -12.038 1.00 26.52	H
ATOM 2215 HB3 ALA A 142	8.906 -9.241 -13.418 1.00 26.52	H
ATOM 2216 N THR A 143	12.070 -9.457 -14.972 1.00 22.88	N
ANISOU 2216 N THR A 143	3527 2247 2920 875 -1471 -813	N
ATOM 2217 CA THR A 143	12.545 -10.108 -16.183 1.00 21.06	C
ANISOU 2217 CA THR A 143	3261 1984 2757 638 -1318 -645	C
ATOM 2218 C THR A 143	12.676 -11.607 -15.957 1.00 19.31	C
ANISOU 2218 C THR A 143	2873 2007 2456 600 -1148 -584	C

ATOM 2219 O THR A 143	13.054 -12.058 -14.869 1.00 19.83	O
ANISOU 2219 O THR A 143	2850 2192 2492 667 -1172 -664	O
ATOM 2220 CB THR A 143	13.894 -9.537 -16.631 1.00 23.62	C
ANISOU 2220 CB THR A 143	3606 2057 3313 414 -1356 -595	C
ATOM 2221 OG1 THR A 143	14.846 -9.682 -15.574 1.00 25.45	O
ANISOU 2221 OG1 THR A 143	3743 2298 3628 399 -1442 -710	O
ATOM 2222 CG2 THR A 143	13.763 -8.066 -16.986 1.00 25.92	C
ANISOU 2222 CG2 THR A 143	4062 2068 3719 421 -1514 -609	C
ATOM 2223 H THR A 143	12.535 -9.634 -14.270 1.00 27.46	H
ATOM 2224 HA THR A 143	11.902 -9.963 -16.895 1.00 25.27	H
ATOM 2225 HB THR A 143	14.204 -10.017 -17.415 1.00 28.35	H
ATOM 2226 HG1 THR A 143	14.939 -10.494 -15.381 1.00 30.54	H
ATOM 2227 HG21 THR A 143	13.124 -7.955 -17.708 1.00 31.11	H
ATOM 2228 HG22 THR A 143	13.456 -7.564 -16.215 1.00 31.11	H
ATOM 2229 HG23 THR A 143	14.622 -7.715 -17.269 1.00 31.11	H
ATOM 2230 N ILE A 144	12.348 -12.374 -16.991 1.00 17.26	N
ANISOU 2230 N ILE A 144	2584 1815 2160 508 -993 -448	N
ATOM 2231 CA ILE A 144	12.663 -13.797 -17.056 1.00 15.13	C
ANISOU 2231 CA ILE A 144	2174 1705 1871 425 -838 -374	C
ATOM 2232 C ILE A 144	13.593 -13.960 -18.248 1.00 15.48	C
ANISOU 2232 C ILE A 144	2234 1632 2015 220 -736 -263	C
ATOM 2233 O ILE A 144	13.172 -13.796 -19.401 1.00 14.74	O
ANISOU 2233 O ILE A 144	2227 1488 1886 186 -690 -182	O
ATOM 2234 CB ILE A 144	11.409 -14.676 -17.186 1.00 14.02	C
ANISOU 2234 CB ILE A 144	1971 1750 1608 517 -762 -330	C
ATOM 2235 CG1 ILE A 144	10.576 -14.565 -15.907 1.00 14.11	C
ANISOU 2235 CG1 ILE A 144	1930 1904 1526 710 -787 -403	C
ATOM 2236 CG2 ILE A 144	11.805 -16.148 -17.453 1.00 14.50	C
ANISOU 2236 CG2 ILE A 144	1908 1910 1690 405 -619 -248	C
ATOM 2237 CD1 ILE A 144	9.256 -15.321 -15.937 1.00 13.87	C
ANISOU 2237 CD1 ILE A 144	1808 2029 1434 751 -661 -333	C
ATOM 2238 H ILE A 144	11.932 -12.085 -17.686 1.00 20.71	H
ATOM 2239 HA ILE A 144	13.141 -14.061 -16.254 1.00 18.16	H
ATOM 2240 HB ILE A 144	10.880 -14.355 -17.933 1.00 16.83	H
ATOM 2241 HG12 ILE A 144	11.097 -14.915 -15.167 1.00 16.93	H
ATOM 2242 HG13 ILE A 144	10.374 -13.630 -15.750 1.00 16.93	H
ATOM 2243 HG21 ILE A 144	11.000 -16.682 -17.532 1.00 17.39	H
ATOM 2244 HG22 ILE A 144	12.314 -16.193 -18.278 1.00 17.39	H
ATOM 2245 HG23 ILE A 144	12.345 -16.469 -16.714 1.00 17.39	H
ATOM 2246 HD11 ILE A 144	8.800 -15.194 -15.090 1.00 16.64	H
ATOM 2247 HD12 ILE A 144	8.711 -14.976 -16.662 1.00 16.64	H
ATOM 2248 HD13 ILE A 144	9.436 -16.264 -16.078 1.00 16.64	H
ATOM 2249 N THR A 145	14.869 -14.212 -17.964 1.00 15.36	N
ANISOU 2249 N THR A 145	2136 1585 2117 105 -707 -259	N
ATOM 2250 CA THR A 145	15.886 -14.449 -18.984 1.00 15.46	C
ANISOU 2250 CA THR A 145	2125 1526 2223 -72 -580 -144	C
ATOM 2251 C THR A 145	15.757 -15.920 -19.352 1.00 14.43	C
ANISOU 2251 C THR A 145	1912 1560 2009 -77 -435 -99	C
ATOM 2252 O THR A 145	16.412 -16.792 -18.778 1.00 13.97	O
ANISOU 2252 O THR A 145	1731 1588 1990 -96 -390 -116	O
ATOM 2253 CB THR A 145	17.275 -14.098 -18.466 1.00 16.96	C
ANISOU 2253 CB THR A 145	2227 1620 2599 -183 -623 -165	C
ATOM 2254 OG1 THR A 145	17.298 -12.727 -18.025 1.00 19.43	O

ANISOU 2254	OG1 THR A 145	2622	1747	3013	-169	-806	-236	O
ATOM 2255	CG2 THR A 145	18.326	-14.286	-19.555	1.00	17.74		C
ANISOU 2255	CG2 THR A 145	2276	1667	2800	-356	-464	-20	C
ATOM 2256	H THR A 145	15.178	-14.252	-17.163	1.00	18.44		H
ATOM 2257	HA THR A 145	15.698	-13.911	-19.769	1.00	18.55		H
ATOM 2258	HB THR A 145	17.498	-14.679	-17.721	1.00	20.36		H
ATOM 2259	HG1 THR A 145	16.738	-12.614	-17.409	1.00	23.32		H
ATOM 2260	HG21 THR A 145	19.204	-14.059	-19.211	1.00	21.29		H
ATOM 2261	HG22 THR A 145	18.332	-15.210	-19.852	1.00	21.29		H
ATOM 2262	HG23 THR A 145	18.125	-13.713	-20.311	1.00	21.29		H
ATOM 2263	N PHE A 146	14.852	-16.200	-20.293	1.00	13.97		N
ANISOU 2263	N PHE A 146	1930	1538	1842	-43	-386	-53	N
ATOM 2264	CA PHE A 146	14.421	-17.577	-20.524	1.00	12.62		C
ANISOU 2264	CA PHE A 146	1691	1501	1603	-20	-306	-45	C
ATOM 2265	C PHE A 146	15.578	-18.474	-20.952	1.00	12.88		C
ANISOU 2265	C PHE A 146	1651	1554	1690	-115	-178	-4	C
ATOM 2266	O PHE A 146	15.546	-19.684	-20.695	1.00	13.09		O
ANISOU 2266	O PHE A 146	1589	1670	1714	-97	-136	-20	O
ATOM 2267	CB PHE A 146	13.301	-17.588	-21.563	1.00	12.78		C
ANISOU 2267	CB PHE A 146	1812	1531	1514	30	-317	-23	C
ATOM 2268	CG PHE A 146	12.723	-18.951	-21.836	1.00	11.95		C
ANISOU 2268	CG PHE A 146	1639	1528	1372	50	-282	-34	C
ATOM 2269	CD1 PHE A 146	12.318	-19.771	-20.798	1.00	11.34		C
ANISOU 2269	CD1 PHE A 146	1428	1546	1333	89	-296	-58	C
ATOM 2270	CD2 PHE A 146	12.566	-19.400	-23.140	1.00	12.30		C
ANISOU 2270	CD2 PHE A 146	1761	1566	1348	40	-245	-18	C
ATOM 2271	CE1 PHE A 146	11.784	-21.015	-21.053	1.00	10.58		C
ANISOU 2271	CE1 PHE A 146	1263	1504	1253	86	-280	-53	C
ATOM 2272	CE2 PHE A 146	12.024	-20.642	-23.394	1.00	12.28		C
ANISOU 2272	CE2 PHE A 146	1701	1621	1343	56	-254	-53	C
ATOM 2273	CZ PHE A 146	11.638	-21.450	-22.349	1.00	11.23		C
ANISOU 2273	CZ PHE A 146	1421	1550	1295	64	-275	-66	C
ATOM 2274	H PHE A 146	14.477	-15.618	-20.803	1.00	16.77		H
ATOM 2275	HA PHE A 146	14.061	-17.934	-19.697	1.00	15.15		H
ATOM 2276	HB2 PHE A 146	12.581	-17.019	-21.250	1.00	15.34		H
ATOM 2277	HB3 PHE A 146	13.650	-17.243	-22.400	1.00	15.34		H
ATOM 2278	HD1 PHE A 146	12.416	-19.484	-19.919	1.00	13.60		H
ATOM 2279	HD2 PHE A 146	12.828	-18.858	-23.848	1.00	14.76		H
ATOM 2280	HE1 PHE A 146	11.519	-21.560	-20.348	1.00	12.70		H
ATOM 2281	HE2 PHE A 146	11.928	-20.938	-24.271	1.00	14.74		H
ATOM 2282	HZ PHE A 146	11.275	-22.289	-22.519	1.00	13.47		H
ATOM 2283	N SER A 147	16.599	-17.908	-21.607	1.00	14.33		N
ANISOU 2283	N SER A 147	1859	1652	1932	-210	-109	62	N
ATOM 2284	CA SER A 147	17.737	-18.706	-22.060	1.00	14.64		C
ANISOU 2284	CA SER A 147	1813	1730	2017	-277	30	106	C
ATOM 2285	C SER A 147	18.428	-19.417	-20.906	1.00	13.49		C
ANISOU 2285	C SER A 147	1511	1645	1969	-281	15	51	C
ATOM 2286	O SER A 147	18.949	-20.524	-21.083	1.00	12.43		O
ANISOU 2286	O SER A 147	1302	1580	1842	-279	105	53	O
ATOM 2287	CB SER A 147	18.745	-17.819	-22.792	1.00	16.80		C
ANISOU 2287	CB SER A 147	2102	1913	2366	-381	116	216	C
ATOM 2288	OG SER A 147	19.235	-16.797	-21.949	1.00	17.97		O
ANISOU 2288	OG SER A 147	2203	1951	2672	-447	13	205	O

ATOM	2289	H	SER A 147	16.654 -17.071 -21.798	1.00	17.19	H
ATOM	2290	HA	SER A 147	17.422 -19.380 -22.682	1.00	17.56	H
ATOM	2291	HB2	SER A 147	19.489 -18.367 -23.088	1.00	20.15	H
ATOM	2292	HB3	SER A 147	18.309 -17.413 -23.558	1.00	20.15	H
ATOM	2293	HG	SER A 147	19.787 -16.320 -22.366	1.00	21.56	H
ATOM	2294	N	ASN A 148	18.474 -18.792 -19.728	1.00	13.85	N
ANISOU	2294	N	ASN A 148	1517 1663 2081	-265 -110 -7		N
ATOM	2295	CA	ASN A 148	19.068 -19.457 -18.573	1.00	12.84	C
ANISOU	2295	CA	ASN A 148	1256 1609 2013	-236 -144 -60		C
ATOM	2296	C	ASN A 148	18.315 -20.738 -18.228	1.00	11.24	C
ANISOU	2296	C	ASN A 148	1025 1523 1723	-145 -118 -68		C
ATOM	2297	O	ASN A 148	18.922 -21.739 -17.835	1.00	11.43	O
ANISOU	2297	O	ASN A 148	948 1608 1788	-135 -75 -63		O
ATOM	2298	CB	ASN A 148	19.072 -18.519 -17.370	1.00	13.56	C
ANISOU	2298	CB	ASN A 148	1343 1665 2145	-190 -312 -145		C
ATOM	2299	CG	ASN A 148	20.072 -17.393 -17.504	1.00	15.39	C
ANISOU	2299	CG	ASN A 148	1557 1750 2541	-305 -369 -144		C
ATOM	2300	OD1	ASN A 148	21.100 -17.535 -18.161	1.00	16.84	O
ANISOU	2300	OD1	ASN A 148	1658 1904 2837	-423 -264 -68		O
ATOM	2301	ND2	ASN A 148	19.781 -16.267 -16.863	1.00	15.33	N
ANISOU	2301	ND2	ASN A 148	1616 1646 2562	-266 -541 -227		N
ATOM	2302	H	ASN A 148	18.173 -18.001 -19.575	1.00	16.62	H
ATOM	2303	HA	ASN A 148	19.987 -19.691 -18.777	1.00	15.40	H
ATOM	2304	HB2	ASN A 148	18.190 -18.126 -17.273	1.00	16.27	H
ATOM	2305	HB3	ASN A 148	19.298 -19.027 -16.575	1.00	16.27	H
ATOM	2306	HD21	ASN A 148	20.318 -15.597 -16.907	1.00	18.40	H
ATOM	2307	HD22	ASN A 148	19.057 -16.209 -16.403	1.00	18.40	H
ATOM	2308	N	HIS A 149	16.988 -20.707 -18.325	1.00	10.91	N
ANISOU	2308	N	HIS A 149	1058 1506 1583	-79 -153 -70		N
ATOM	2309	CA	HIS A 149	16.190 -21.899 -18.044	1.00	9.90	C
ANISOU	2309	CA	HIS A 149	881 1465 1415	-17 -132 -50		C
ATOM	2310	C	HIS A 149	16.375 -22.953 -19.127	1.00	10.66	C
ANISOU	2310	C	HIS A 149	981 1541 1528	-65 -41 -26		C
ATOM	2311	O	HIS A 149	16.575 -24.138 -18.830	1.00	9.64	O
ANISOU	2311	O	HIS A 149	774 1443 1446	-52 -8 -11		O
ATOM	2312	CB	HIS A 149	14.720 -21.513 -17.911	1.00	10.44	C
ANISOU	2312	CB	HIS A 149	997 1568 1403	60 -196 -52		C
ATOM	2313	CG	HIS A 149	14.456 -20.608 -16.749	1.00	12.05	C
ANISOU	2313	CG	HIS A 149	1201 1816 1563	159 -287 -94		C
ATOM	2314	ND1	HIS A 149	14.242 -21.083 -15.474	1.00	12.77	N
ANISOU	2314	ND1	HIS A 149	1204 2031 1619	263 -299 -81		N
ATOM	2315	CD2	HIS A 149	14.423 -19.256 -16.656	1.00	13.35	C
ANISOU	2315	CD2	HIS A 149	1453 1912 1706	188 -378 -154		C
ATOM	2316	CE1	HIS A 149	14.067 -20.066 -14.648	1.00	14.09	C
ANISOU	2316	CE1	HIS A 149	1410 2225 1720	373 -395 -151		C
ATOM	2317	NE2	HIS A 149	14.178 -18.944 -15.338	1.00	13.44	N
ANISOU	2317	NE2	HIS A 149	1434 2011 1660	324 -456 -207		N
ATOM	2318	H	HIS A 149	16.529 -20.016 -18.549	1.00	13.10	H
ATOM	2319	HA	HIS A 149	16.478 -22.281 -17.201	1.00	11.88	H
ATOM	2320	HB2	HIS A 149	14.441 -21.053 -18.718	1.00	12.53	H
ATOM	2321	HB3	HIS A 149	14.193 -22.318 -17.789	1.00	12.53	H
ATOM	2322	HD1	HIS A 149	14.219 -21.914 -15.251	1.00	15.33	H
ATOM	2323	HD2	HIS A 149	14.542 -18.652 -17.353	1.00	16.01	H

ATOM 2324	HE1	HIS A 149	13.897 -20.129 -13.736	1.00 16.91	H
ATOM 2325	N	VAL A 150	16.293 -22.543 -20.391	1.00 10.55	N
ANISOU 2325	N	VAL A 150	1071 1472 1467 -101 -9 -25	N	
ATOM 2326	CA	VAL A 150	16.509 -23.478 -21.492	1.00 10.47	C
ANISOU 2326	CA	VAL A 150	1090 1451 1437 -110 65 -31	C	
ATOM 2327	C	VAL A 150	17.855 -24.168 -21.339	1.00 10.82	C
ANISOU 2327	C	VAL A 150	1042 1512 1559 -130 154 -27	C	
ATOM 2328	O	VAL A 150	17.976 -25.387 -21.511	1.00 10.99	O
ANISOU 2328	O	VAL A 150	1030 1538 1606 -100 180 -50	O	
ATOM 2329	CB	VAL A 150	16.402 -22.744 -22.842	1.00 10.00	C
ANISOU 2329	CB	VAL A 150	1169 1354 1276 -117 98 -17	C	
ATOM 2330	CG1	VAL A 150	16.725 -23.691 -24.002	1.00 10.68	C
ANISOU 2330	CG1	VAL A 150	1303 1452 1302 -85 174 -44	C	
ATOM 2331	CG2	VAL A 150	15.013 -22.138 -23.013	1.00 9.85	C
ANISOU 2331	CG2	VAL A 150	1238 1322 1183 -76 -9 -28	C	
ATOM 2332	H	VAL A 150	16.116 -21.737 -20.635	1.00 12.67	H
ATOM 2333	HA	VAL A 150	15.819 -24.160 -21.467	1.00 12.57	H
ATOM 2334	HB	VAL A 150	17.048 -22.020 -22.858	1.00 12.00	H
ATOM 2335	HG11	VAL A 150	16.650 -23.203 -24.837	1.00 12.81	H
ATOM 2336	HG12	VAL A 150	17.628 -24.026 -23.894	1.00 12.81	H
ATOM 2337	HG13	VAL A 150	16.094 -24.428 -23.992	1.00 12.81	H
ATOM 2338	HG21	VAL A 150	14.971 -21.682 -23.868	1.00 11.82	H
ATOM 2339	HG22	VAL A 150	14.353 -22.848 -22.983	1.00 11.82	H
ATOM 2340	HG23	VAL A 150	14.853 -21.508 -22.293	1.00 11.82	H
ATOM 2341	N	ASN A 151	18.894 -23.398 -21.017	1.00 12.53	N
ANISOU 2341	N	ASN A 151	1206 1723 1832 -180 187 -1	N	
ATOM 2342	CA	ASN A 151	20.229 -23.979 -20.925	1.00 13.26	C
ANISOU 2342	CA	ASN A 151	1185 1843 2010 -195 271 6	C	
ATOM 2343	C	ASN A 151	20.349 -24.910 -19.725	1.00 12.55	C
ANISOU 2343	C	ASN A 151	988 1793 1986 -146 218 -16	C	
ATOM 2344	O	ASN A 151	20.969 -25.972 -19.827	1.00 11.79	O
ANISOU 2344	O	ASN A 151	831 1716 1935 -112 274 -24	O	
ATOM 2345	CB	ASN A 151	21.284 -22.876 -20.865	1.00 16.85	C
ANISOU 2345	CB	ASN A 151	1578 2273 2551 -278 300 48	C	
ATOM 2346	CG	ASN A 151	21.487 -22.204 -22.208	1.00 21.37	C
ANISOU 2346	CG	ASN A 151	2233 2817 3071 -323 412 121	C	
ATOM 2347	OD1	ASN A 151	21.320 -22.832 -23.246	1.00 23.07	O
ANISOU 2347	OD1	ASN A 151	2521 3068 3177 -268 503 124	O	
ATOM 2348	ND2	ASN A 151	21.853 -20.927 -22.193	1.00 23.90	N
ANISOU 2348	ND2	ASN A 151	2548 3066 3468 -413 397 182	N	
ATOM 2349	H	ASN A 151	18.853 -22.556 -20.850	1.00 15.04	H
ATOM 2350	HA	ASN A 151	20.396 -24.504 -21.723	1.00 15.91	H
ATOM 2351	HB2	ASN A 151	21.002 -22.200 -20.229	1.00 20.22	H
ATOM 2352	HB3	ASN A 151	22.131 -23.261 -20.590	1.00 20.22	H
ATOM 2353	HD21	ASN A 151	21.979 -20.508 -22.933	1.00 28.68	H
ATOM 2354	HD22	ASN A 151	21.964 -20.521 -21.444	1.00 28.68	H
ATOM 2355	N	ALA A 152	19.767 -24.532 -18.584	1.00 13.34	N
ANISOU 2355	N	ALA A 152	1073 1914 2083 -119 113 -20	N	
ATOM 2356	CA	ALA A 152	19.783 -25.416 -17.421	1.00 13.66	C
ANISOU 2356	CA	ALA A 152	1026 2010 2153 -50 73 -9	C	
ATOM 2357	C	ALA A 152	19.049 -26.714 -17.725	1.00 13.25	C
ANISOU 2357	C	ALA A 152	989 1942 2102 -18 99 20	C	
ATOM 2358	O	ALA A 152	19.560 -27.809 -17.462	1.00 13.65	O

ANISOU 2358 O ALA A 152	981 1991 2213 16 122 37	O
ATOM 2359 CB ALA A 152	19.161 -24.716 -16.214 1.00 13.55	C
ANISOU 2359 CB ALA A 152	1013 2049 2087 9 -31 -13	C
ATOM 2360 H ALA A 152	19.362 -23.783 -18.461 1.00 16.01	H
ATOM 2361 HA ALA A 152	20.703 -25.634 -17.202 1.00 16.39	H
ATOM 2362 HB1 ALA A 152	19.182 -25.319 -15.454 1.00 16.26	H
ATOM 2363 HB2 ALA A 152	19.672 -23.916 -16.016 1.00 16.26	H
ATOM 2364 HB3 ALA A 152	18.244 -24.480 -16.424 1.00 16.26	H
ATOM 2365 N TRP A 153	17.844 -26.609 -18.288 1.00 11.05	N
ANISOU 2365 N TRP A 153	790 1637 1772 -28 76 22	N
ATOM 2366 CA TRP A 153	17.109 -27.806 -18.686 1.00 10.57	C
ANISOU 2366 CA TRP A 153	734 1529 1755 -18 68 35	C
ATOM 2367 C TRP A 153	17.938 -28.658 -19.641 1.00 10.76	C
ANISOU 2367 C TRP A 153	781 1492 1816 -15 124 -19	C
ATOM 2368 O TRP A 153	18.012 -29.887 -19.494 1.00 10.30	O
ANISOU 2368 O TRP A 153	683 1382 1847 13 114 -10	O
ATOM 2369 CB TRP A 153	15.777 -27.404 -19.332 1.00 9.62	C
ANISOU 2369 CB TRP A 153	687 1386 1581 -34 14 22	C
ATOM 2370 CG TRP A 153	14.823 -26.642 -18.427 1.00 9.75	C
ANISOU 2370 CG TRP A 153	674 1476 1555 -5 -35 72	C
ATOM 2371 CD1 TRP A 153	14.879 -26.538 -17.065 1.00 10.68	C
ANISOU 2371 CD1 TRP A 153	711 1680 1667 51 -37 131	C
ATOM 2372 CD2 TRP A 153	13.667 -25.898 -18.836 1.00 9.93	C
ANISOU 2372 CD2 TRP A 153	749 1507 1515 3 -90 59	C
ATOM 2373 NE1 TRP A 153	13.830 -25.775 -16.606 1.00 11.46	N
ANISOU 2373 NE1 TRP A 153	810 1849 1696 102 -79 152	N
ATOM 2374 CE2 TRP A 153	13.076 -25.366 -17.672 1.00 10.74	C
ANISOU 2374 CE2 TRP A 153	793 1707 1582 68 -113 109	C
ATOM 2375 CE3 TRP A 153	13.082 -25.619 -20.074 1.00 10.50	C
ANISOU 2375 CE3 TRP A 153	919 1527 1543 -16 -129 5	C
ATOM 2376 CZ2 TRP A 153	11.928 -24.571 -17.712 1.00 11.35	C
ANISOU 2376 CZ2 TRP A 153	891 1825 1598 113 -165 106	C
ATOM 2377 CZ3 TRP A 153	11.936 -24.825 -20.109 1.00 11.42	C
ANISOU 2377 CZ3 TRP A 153	1058 1676 1605 18 -195 8	C
ATOM 2378 CH2 TRP A 153	11.372 -24.323 -18.934 1.00 11.05	C
ANISOU 2378 CH2 TRP A 153	936 1721 1542 81 -209 58	C
ATOM 2379 H TRP A 153	17.437 -25.869 -18.447 1.00 13.26	H
ATOM 2380 HA TRP A 153	16.915 -28.337 -17.898 1.00 12.69	H
ATOM 2381 HB2 TRP A 153	15.965 -26.840 -20.098 1.00 11.54	H
ATOM 2382 HB3 TRP A 153	15.322 -28.208 -19.625 1.00 11.54	H
ATOM 2383 HD1 TRP A 153	15.526 -26.934 -16.526 1.00 12.82	H
ATOM 2384 HE1 TRP A 153	13.676 -25.580 -15.782 1.00 13.76	H
ATOM 2385 HE3 TRP A 153	13.451 -25.953 -20.859 1.00 12.60	H
ATOM 2386 HZ2 TRP A 153	11.550 -24.232 -16.933 1.00 13.63	H
ATOM 2387 HZ3 TRP A 153	11.534 -24.638 -20.927 1.00 13.70	H
ATOM 2388 HH2 TRP A 153	10.608 -23.796 -18.986 1.00 13.26	H
ATOM 2389 N LYS A 154	18.582 -28.018 -20.621 1.00 12.15	N
ANISOU 2389 N LYS A 154	1020 1673 1925 -31 187 -66	N
ATOM 2390 CA LYS A 154	19.435 -28.746 -21.554 1.00 14.89	C
ANISOU 2390 CA LYS A 154	1386 2000 2271 10 263 -120	C
ATOM 2391 C LYS A 154	20.530 -29.513 -20.819 1.00 12.50	C
ANISOU 2391 C LYS A 154	964 1713 2073 46 299 -106	C
ATOM 2392 O LYS A 154	20.851 -30.657 -21.175 1.00 11.72	O

ANISOU 2392 O LYS A 154	866 1567 2019 112 311 -152	O
ATOM 2393 CB LYS A 154	20.054 -27.767 -22.553 1.00 19.57	C
ANISOU 2393 CB LYS A 154	2037 2633 2765 -6 362 -122	C
ATOM 2394 CG LYS A 154	20.322 -28.334 -23.911 1.00 24.72	C
ANISOU 2394 CG LYS A 154	2780 3287 3327 72 432 -186	C
ATOM 2395 CD LYS A 154	20.992 -27.297 -24.822 1.00 28.71	C
ANISOU 2395 CD LYS A 154	3325 3858 3725 61 566 -133	C
ATOM 2396 CE LYS A 154	20.002 -26.249 -25.331 1.00 31.32	C
ANISOU 2396 CE LYS A 154	3786 4169 3944 26 517 -102	C
ATOM 2397 NZ LYS A 154	20.680 -25.142 -26.087 1.00 34.67	N
ANISOU 2397 NZ LYS A 154	4242 4640 4291 -2 654 0	N
ATOM 2398 H LYS A 154	18.541 -27.170 -20.763 1.00 14.58	H
ATOM 2399 HA LYS A 154	18.897 -29.384 -22.048 1.00 17.87	H
ATOM 2400 HB2 LYS A 154	19.449 -27.016 -22.664 1.00 23.48	H
ATOM 2401 HB3 LYS A 154	20.899 -27.453 -22.195 1.00 23.48	H
ATOM 2402 HG2 LYS A 154	20.916 -29.097 -23.829 1.00 29.67	H
ATOM 2403 HG3 LYS A 154	19.484 -28.603 -24.318 1.00 29.67	H
ATOM 2404 HD2 LYS A 154	21.687 -26.838 -24.324 1.00 34.45	H
ATOM 2405 HD3 LYS A 154	21.374 -27.748 -25.590 1.00 34.45	H
ATOM 2406 HE2 LYS A 154	19.367 -26.676 -25.926 1.00 37.58	H
ATOM 2407 HE3 LYS A 154	19.538 -25.857 -24.574 1.00 37.58	H
ATOM 2408 HZ1 LYS A 154	20.077 -24.551 -26.368 1.00 41.61	H
ATOM 2409 HZ2 LYS A 154	21.266 -24.728 -25.560 1.00 41.61	H
ATOM 2410 HZ3 LYS A 154	21.110 -25.474 -26.792 1.00 41.61	H
ATOM 2411 N SER A 155	21.110 -28.907 -19.782 1.00 12.56	N
ANISOU 2411 N SER A 155	873 1780 2121 21 295 -57	N
ATOM 2412 CA SER A 155	22.196 -29.561 -19.061 1.00 13.54	C
ANISOU 2412 CA SER A 155	890 1932 2323 69 306 -44	C
ATOM 2413 C SER A 155	21.731 -30.834 -18.369 1.00 13.32	C
ANISOU 2413 C SER A 155	854 1853 2352 127 243 -12	C
ATOM 2414 O SER A 155	22.565 -31.681 -18.031 1.00 13.91	O
ANISOU 2414 O SER A 155	889 1925 2471 187 246 -9	O
ATOM 2415 CB SER A 155	22.813 -28.606 -18.028 1.00 14.85	C
ANISOU 2415 CB SER A 155	1023 2168 2452 38 246 -16	C
ATOM 2416 OG SER A 155	21.992 -28.466 -16.882 1.00 14.04	O
ANISOU 2416 OG SER A 155	941 2086 2307 57 154 13	O
ATOM 2417 H SER A 155	20.896 -28.130 -19.482 1.00 15.08	H
ATOM 2418 HA SER A 155	22.890 -29.803 -19.693 1.00 16.25	H
ATOM 2419 HB2 SER A 155	23.675 -28.956 -17.754 1.00 17.82	H
ATOM 2420 HB3 SER A 155	22.927 -27.734 -18.438 1.00 17.82	H
ATOM 2421 HG SER A 155	21.241 -28.160 -17.101 1.00 16.85	H
ATOM 2422 N HIS A 156	20.425 -30.985 -18.143 1.00 12.08	N
ANISOU 2422 N HIS A 156	727 1656 2208 108 187 30	N
ATOM 2423 CA HIS A 156	19.870 -32.212 -17.590 1.00 13.05	C
ANISOU 2423 CA HIS A 156	831 1706 2422 140 138 99	C
ATOM 2424 C HIS A 156	19.226 -33.089 -18.658 1.00 13.69	C
ANISOU 2424 C HIS A 156	986 1650 2567 131 105 39	C
ATOM 2425 O HIS A 156	18.467 -34.007 -18.323 1.00 14.10	O
ANISOU 2425 O HIS A 156	1019 1603 2734 121 43 106	O
ATOM 2426 CB HIS A 156	18.858 -31.881 -16.490 1.00 13.70	C
ANISOU 2426 CB HIS A 156	933 1842 2430 121 90 198	C
ATOM 2427 CG HIS A 156	19.446 -31.109 -15.351 1.00 14.15	C
ANISOU 2427 CG HIS A 156	994 2014 2367 155 79 200	C

ATOM 2428 ND1 HIS A 156	20.221 -31.701 -14.379 1.00 15.18	N
ANISOU 2428 ND1 HIS A 156	1094 2171 2504 218 68 235	N
ATOM 2429 CD2 HIS A 156	19.408 -29.791 -15.051 1.00 13.70	C
ANISOU 2429 CD2 HIS A 156	957 2034 2216 146 58 153	C
ATOM 2430 CE1 HIS A 156	20.615 -30.786 -13.512 1.00 15.06	C
ANISOU 2430 CE1 HIS A 156	1075 2245 2403 248 33 198	C
ATOM 2431 NE2 HIS A 156	20.134 -29.617 -13.897 1.00 14.57	N
ANISOU 2431 NE2 HIS A 156	1040 2203 2292 204 24 146	N
ATOM 2432 H HIS A 156	19.835 -30.381 -18.306 1.00 14.50	H
ATOM 2433 HA HIS A 156	20.588 -32.722 -17.184 1.00 15.66	H
ATOM 2434 HB2 HIS A 156	18.143 -31.348 -16.872 1.00 16.44	H
ATOM 2435 HB3 HIS A 156	18.499 -32.708 -16.135 1.00 16.44	H
ATOM 2436 HD1 HIS A 156	20.409 -32.540 -14.335 1.00 18.22	H
ATOM 2437 HD2 HIS A 156	18.960 -29.129 -15.526 1.00 16.44	H
ATOM 2438 HE1 HIS A 156	21.143 -30.937 -12.762 1.00 18.08	H
ATOM 2439 N GLY A 157	19.528 -32.840 -19.933 1.00 14.69	N
ANISOU 2439 N GLY A 157	1563 1734 2286 476 -445 -120	N
ATOM 2440 CA GLY A 157	18.959 -33.620 -21.016 1.00 13.80	C
ANISOU 2440 CA GLY A 157	1477 1566 2199 395 -341 -72	C
ATOM 2441 C GLY A 157	17.520 -33.302 -21.343 1.00 12.33	C
ANISOU 2441 C GLY A 157	1348 1400 1936 319 -271 -14	C
ATOM 2442 O GLY A 157	16.893 -34.047 -22.106 1.00 11.87	O
ANISOU 2442 O GLY A 157	1317 1300 1892 262 -202 22	O
ATOM 2443 H GLY A 157	20.064 -32.219 -20.193 1.00 17.63	H
ATOM 2444 HA2 GLY A 157	19.486 -33.477 -21.818 1.00 16.56	H
ATOM 2445 HA3 GLY A 157	19.012 -34.561 -20.787 1.00 16.56	H
ATOM 2446 N MET A 158	16.973 -32.226 -20.780 1.00 11.71	N
ANISOU 2446 N MET A 158	1280 1384 1784 323 -295 -15	N
ATOM 2447 CA MET A 158	15.592 -31.808 -21.022 1.00 11.39	C
ANISOU 2447 CA MET A 158	1281 1372 1676 263 -238 32	C
ATOM 2448 C MET A 158	15.584 -30.861 -22.220 1.00 10.73	C
ANISOU 2448 C MET A 158	1156 1284 1637 181 -196 -25	C
ATOM 2449 O MET A 158	15.629 -29.631 -22.089 1.00 11.16	O
ANISOU 2449 O MET A 158	1188 1368 1684 177 -218 -66	O
ATOM 2450 CB MET A 158	15.019 -31.142 -19.776 1.00 11.56	C
ANISOU 2450 CB MET A 158	1339 1464 1591 326 -282 58	C
ATOM 2451 CG MET A 158	14.976 -32.023 -18.535 1.00 13.64	C
ANISOU 2451 CG MET A 158	1663 1741 1779 425 -311 134	C
ATOM 2452 SD MET A 158	14.901 -31.073 -16.987 1.00 14.46	S
ANISOU 2452 SD MET A 158	1803 1945 1748 544 -396 116	S
ATOM 2453 CE MET A 158	13.466 -30.040 -17.307 1.00 14.03	C
ANISOU 2453 CE MET A 158	1753 1934 1645 469 -327 126	C
ATOM 2454 H MET A 158	17.394 -31.708 -20.238 1.00 14.05	H
ATOM 2455 HA MET A 158	15.052 -32.588 -21.227 1.00 13.67	H
ATOM 2456 HB2 MET A 158	15.560 -30.365 -19.565 1.00 13.88	H
ATOM 2457 HB3 MET A 158	14.110 -30.862 -19.967 1.00 13.88	H
ATOM 2458 HG2 MET A 158	14.189 -32.588 -18.577 1.00 16.37	H
ATOM 2459 HG3 MET A 158	15.776 -32.571 -18.511 1.00 16.37	H
ATOM 2460 HE1 MET A 158	13.311 -29.469 -16.539 1.00 16.84	H
ATOM 2461 HE2 MET A 158	13.636 -29.499 -18.094 1.00 16.84	H
ATOM 2462 HE3 MET A 158	12.695 -30.610 -17.457 1.00 16.84	H
ATOM 2463 N ASN A 159	15.553 -31.452 -23.412 1.00 10.34	N
ANISOU 2463 N ASN A 159	1102 1193 1633 122 -134 -29	N

ATOM 2464	CA	ASN A 159	15.627	-30.683	-24.644	1.00	12.33		C
ANISOU 2464	CA	ASN A 159	1331	1441	1912	61	-82	-70	C
ATOM 2465	C	ASN A 159	14.230	-30.312	-25.113	1.00	11.63		C
ANISOU 2465	C	ASN A 159	1284	1384	1751	16	-50	-35	C
ATOM 2466	O	ASN A 159	13.301	-31.117	-25.032	1.00	11.47		O
ANISOU 2466	O	ASN A 159	1295	1363	1700	5	-40	6	O
ATOM 2467	CB	ASN A 159	16.349	-31.472	-25.735	1.00	13.54		C
ANISOU 2467	CB	ASN A 159	1465	1548	2132	39	-33	-103	C
ATOM 2468	CG	ASN A 159	17.803	-31.713	-25.406	1.00	15.98		C
ANISOU 2468	CG	ASN A 159	1711	1828	2533	84	-61	-151	C
ATOM 2469	OD1	ASN A 159	18.658	-30.883	-25.704	1.00	17.60		O
ANISOU 2469	OD1	ASN A 159	1855	2029	2802	73	-45	-201	O
ATOM 2470	ND2	ASN A 159	18.092	-32.848	-24.790	1.00	16.61		N
ANISOU 2470	ND2	ASN A 159	1799	1879	2631	136	-99	-135	N
ATOM 2471	H	ASN A 159	15.489	-32.301	-23.531	1.00	12.41		H
ATOM 2472	HA	ASN A 159	16.121	-29.865	-24.482	1.00	14.79		H
ATOM 2473	HB2	ASN A 159	15.917	-32.334	-25.841	1.00	16.25		H
ATOM 2474	HB3	ASN A 159	16.307	-30.974	-26.566	1.00	16.25		H
ATOM 2475	HD21	ASN A 159	18.907	-33.029	-24.583	1.00	19.93		H
ATOM 2476	HD22	ASN A 159	17.465	-33.405	-24.598	1.00	19.93		H
ATOM 2477	N	LEU A 160	14.087	-29.080	-25.583	1.00	10.99		N
ANISOU 2477	N	LEU A 160	1198	1323	1657	-6	-34	-52	N
ATOM 2478	CA	LEU A 160	12.836	-28.605	-26.153	1.00	12.30		C
ANISOU 2478	CA	LEU A 160	1396	1519	1756	-36	-12	-27	C
ATOM 2479	C	LEU A 160	12.780	-28.893	-27.654	1.00	12.85		C
ANISOU 2479	C	LEU A 160	1483	1576	1822	-71	42	-44	C
ATOM 2480	O	LEU A 160	13.794	-29.162	-28.301	1.00	13.12		O
ANISOU 2480	O	LEU A 160	1502	1579	1904	-75	78	-74	O
ATOM 2481	CB	LEU A 160	12.677	-27.112	-25.895	1.00	12.39		C
ANISOU 2481	CB	LEU A 160	1405	1552	1752	-27	-25	-33	C
ATOM 2482	CG	LEU A 160	12.462	-26.767	-24.417	1.00	13.29		C
ANISOU 2482	CG	LEU A 160	1515	1696	1839	21	-85	-29	C
ATOM 2483	CD1	LEU A 160	12.667	-25.285	-24.178	1.00	14.25		C
ANISOU 2483	CD1	LEU A 160	1623	1814	1979	33	-106	-64	C
ATOM 2484	CD2	LEU A 160	11.068	-27.188	-23.984	1.00	14.50		C
ANISOU 2484	CD2	LEU A 160	1697	1895	1916	27	-84	20	C
ATOM 2485	H	LEU A 160	14.712	-28.489	-25.582	1.00	13.19		H
ATOM 2486	HA	LEU A 160	12.096	-29.067	-25.728	1.00	14.75		H
ATOM 2487	HB2	LEU A 160	13.479	-26.655	-26.194	1.00	14.87		H
ATOM 2488	HB3	LEU A 160	11.909	-26.788	-26.391	1.00	14.87		H
ATOM 2489	HG	LEU A 160	13.107	-27.253	-23.879	1.00	15.95		H
ATOM 2490	HD11	LEU A 160	12.526	-25.095	-23.238	1.00	17.11		H
ATOM 2491	HD12	LEU A 160	13.573	-25.047	-24.432	1.00	17.11		H
ATOM 2492	HD13	LEU A 160	12.031	-24.788	-24.716	1.00	17.11		H
ATOM 2493	HD21	LEU A 160	10.947	-26.964	-23.048	1.00	17.40		H
ATOM 2494	HD22	LEU A 160	10.415	-26.717	-24.525	1.00	17.40		H
ATOM 2495	HD23	LEU A 160	10.974	-28.146	-24.111	1.00	17.40		H
ATOM 2496	N	GLY A 161	11.567	-28.848	-28.198	1.00	13.20		N
ANISOU 2496	N	GLY A 161	1558	1653	1806	-87	43	-30	N
ATOM 2497	CA	GLY A 161	11.364	-29.140	-29.605	1.00	12.92		C
ANISOU 2497	CA	GLY A 161	1549	1621	1740	-102	75	-56	C
ATOM 2498	C	GLY A 161	11.866	-28.026	-30.511	1.00	13.85		C
ANISOU 2498	C	GLY A 161	1688	1741	1831	-94	123	-54	C

ATOM 2499 O GLY A 161	12.287 -26.953 -30.076	1.00 13.36	O
ANISOU 2499 O GLY A 161	1613 1667 1794 -88 132 -35		O
ATOM 2500 H GLY A 161	10.847 -28.652 -27.770	1.00 15.85	H
ATOM 2501 HA2 GLY A 161	11.833 -29.958 -29.836	1.00 15.51	H
ATOM 2502 HA3 GLY A 161	10.418 -29.270 -29.775	1.00 15.51	H
ATOM 2503 N SER A 162	11.824 -28.300 -31.816	1.00 15.38	N
ANISOU 2503 N SER A 162	1921 1947 1976 -89 159 -75		N
ATOM 2504 CA SER A 162	12.370 -27.381 -32.810	1.00 17.59	C
ANISOU 2504 CA SER A 162	2237 2227 2221 -72 232 -56		C
ATOM 2505 C SER A 162	11.337 -26.421 -33.393	1.00 17.55	C
ANISOU 2505 C SER A 162	2287 2262 2118 -46 219 -22		C
ATOM 2506 O SER A 162	11.729 -25.450 -34.047	1.00 19.25	O
ANISOU 2506 O SER A 162	2541 2466 2307 -28 285 19		O
ATOM 2507 CB SER A 162	13.016 -28.172 -33.946	1.00 19.35	C
ANISOU 2507 CB SER A 162	2484 2449 2421 -59 291 -95		C
ATOM 2508 OG SER A 162	12.085 -29.047 -34.549	1.00 20.29	O
ANISOU 2508 OG SER A 162	2636 2604 2470 -46 241 -142		O
ATOM 2509 H SER A 162	11.482 -29.015 -32.150	1.00 18.46	H
ATOM 2510 HA SER A 162	13.063 -26.847 -32.391	1.00 21.11	H
ATOM 2511 HB2 SER A 162	13.344 -27.551 -34.616	1.00 23.23	H
ATOM 2512 HB3 SER A 162	13.752 -28.693 -33.589	1.00 23.23	H
ATOM 2513 HG SER A 162	12.454 -29.474 -35.171	1.00 24.35	H
ATOM 2514 N ASN A 163	10.043 -26.660 -33.178	1.00 16.81	N
ANISOU 2514 N ASN A 163	2195 2211 1981 -41 142 -33		N
ATOM 2515 CA ASN A 163	8.970 -25.857 -33.771	1.00 17.77	C
ANISOU 2515 CA ASN A 163	2362 2380 2010 -3 112 -12		C
ATOM 2516 C ASN A 163	8.261 -25.103 -32.648	1.00 15.86	C
ANISOU 2516 C ASN A 163	2085 2141 1798 -6 66 16		C
ATOM 2517 O ASN A 163	7.427 -25.670 -31.940	1.00 15.31	O
ANISOU 2517 O ASN A 163	1971 2096 1749 -22 10 -5		O
ATOM 2518 CB ASN A 163	7.998 -26.741 -34.550	1.00 20.36	C
ANISOU 2518 CB ASN A 163	2704 2761 2272 14 51 -71		C
ATOM 2519 CG ASN A 163	6.851 -25.955 -35.158	1.00 24.49	C
ANISOU 2519 CG ASN A 163	3266 3341 2698 69 -1 -61		C
ATOM 2520 OD1 ASN A 163	6.802 -24.732 -35.056	1.00 25.97	O
ANISOU 2520 OD1 ASN A 163	3482 3523 2864 98 19 2		O
ATOM 2521 ND2 ASN A 163	5.923 -26.659 -35.809	1.00 26.67	N
ANISOU 2521 ND2 ASN A 163	3539 3669 2926 89 -75 -130		N
ATOM 2522 H ASN A 163	9.753 -27.299 -32.681	1.00 20.17	H
ATOM 2523 HA ASN A 163	9.353 -25.208 -34.382	1.00 21.33	H
ATOM 2524 HB2 ASN A 163	8.477 -27.179 -35.271	1.00 24.43	H
ATOM 2525 HB3 ASN A 163	7.622 -27.404 -33.950	1.00 24.43	H
ATOM 2526 HD21 ASN A 163	5.254 -26.258 -36.170	1.00 32.00	H
ATOM 2527 HD22 ASN A 163	5.995 -27.514 -35.867	1.00 32.00	H
ATOM 2528 N TRP A 164	8.579 -23.821 -32.496	1.00 14.81	N
ANISOU 2528 N TRP A 164	1972 1980 1676 11 97 63		N
ATOM 2529 CA TRP A 164	8.134 -23.065 -31.334	1.00 14.08	C
ANISOU 2529 CA TRP A 164	1846 1882 1622 14 59 76		C
ATOM 2530 C TRP A 164	6.718 -22.530 -31.526	1.00 14.45	C
ANISOU 2530 C TRP A 164	1909 1980 1601 57 4 85		C
ATOM 2531 O TRP A 164	6.408 -21.914 -32.556	1.00 14.43	O
ANISOU 2531 O TRP A 164	1966 1989 1529 102 11 111		O
ATOM 2532 CB TRP A 164	9.113 -21.924 -31.048	1.00 14.13	C

ANISOU 2532 CB TRP A 164	1856 1818 1695 11 107 102	C
ATOM 2533 CG TRP A 164	10.410 -22.443 -30.506 1.00 15.08	C
ANISOU 2533 CG TRP A 164	1927 1895 1907 -28 135 74	C
ATOM 2534 CD1 TRP A 164	11.399 -23.077 -31.207 1.00 16.58	C
ANISOU 2534 CD1 TRP A 164	2115 2063 2121 -49 196 66	C
ATOM 2535 CD2 TRP A 164	10.841 -22.413 -29.144 1.00 14.71	C
ANISOU 2535 CD2 TRP A 164	1824 1831 1935 -38 95 43	C
ATOM 2536 NE1 TRP A 164	12.420 -23.434 -30.367 1.00 17.05	N
ANISOU 2536 NE1 TRP A 164	2112 2088 2279 -73 193 32	N
ATOM 2537 CE2 TRP A 164	12.104 -23.043 -29.093 1.00 16.33	C
ANISOU 2537 CE2 TRP A 164	1989 2001 2213 -63 124 16	C
ATOM 2538 CE3 TRP A 164	10.287 -21.911 -27.962 1.00 14.60	C
ANISOU 2538 CE3 TRP A 164	1790 1833 1923 -15 34 29	C
ATOM 2539 CZ2 TRP A 164	12.820 -23.185 -27.908 1.00 16.03	C
ANISOU 2539 CZ2 TRP A 164	1895 1946 2250 -62 80 -24	C
ATOM 2540 CZ3 TRP A 164	11.003 -22.045 -26.786 1.00 15.38	C
ANISOU 2540 CZ3 TRP A 164	1843 1919 2081 -12 -3 -12	C
ATOM 2541 CH2 TRP A 164	12.256 -22.681 -26.768 1.00 15.74	C
ANISOU 2541 CH2 TRP A 164	1851 1932 2198 -33 14 -38	C
ATOM 2542 H TRP A 164	9.052 -23.367 -33.053 1.00 17.77	H
ATOM 2543 HA TRP A 164	8.127 -23.652 -30.562 1.00 16.90	H
ATOM 2544 HB2 TRP A 164	9.297 -21.445 -31.871 1.00 16.96	H
ATOM 2545 HB3 TRP A 164	8.726 -21.326 -30.390 1.00 16.96	H
ATOM 2546 HD1 TRP A 164	11.378 -23.247 -32.121 1.00 19.89	H
ATOM 2547 HE1 TRP A 164	13.139 -23.843 -30.600 1.00 20.46	H
ATOM 2548 HE3 TRP A 164	9.454 -21.496 -27.966 1.00 17.52	H
ATOM 2549 HZ2 TRP A 164	13.655 -23.593 -27.894 1.00 19.24	H
ATOM 2550 HZ3 TRP A 164	10.643 -21.721 -25.992 1.00 18.45	H
ATOM 2551 HH2 TRP A 164	12.716 -22.756 -25.963 1.00 18.89	H
ATOM 2552 N ALA A 165	5.868 -22.754 -30.519 1.00 12.58	N
ANISOU 2552 N ALA A 165	1619 1778 1384 53 -46 67	N
ATOM 2553 CA ALA A 165	4.501 -22.241 -30.467 1.00 13.05	C
ANISOU 2553 CA ALA A 165	1666 1888 1403 95 -97 67	C
ATOM 2554 C ALA A 165	4.452 -21.096 -29.450 1.00 12.51	C
ANISOU 2554 C ALA A 165	1589 1799 1366 121 -99 83	C
ATOM 2555 O ALA A 165	5.487 -20.458 -29.194 1.00 13.17	O
ANISOU 2555 O ALA A 165	1693 1819 1492 114 -65 95	O
ATOM 2556 CB ALA A 165	3.554 -23.401 -30.168 1.00 13.86	C
ANISOU 2556 CB ALA A 165	1704 2042 1519 68 -134 30	C
ATOM 2557 H ALA A 165	6.074 -23.221 -29.827 1.00 15.10	H
ATOM 2558 HA ALA A 165	4.266 -21.880 -31.336 1.00 15.65	H
ATOM 2559 HB1 ALA A 165	2.645 -23.064 -30.132 1.00 16.63	H
ATOM 2560 HB2 ALA A 165	3.634 -24.063 -30.871 1.00 16.63	H
ATOM 2561 HB3 ALA A 165	3.795 -23.793 -29.314 1.00 16.63	H
ATOM 2562 N TYR A 166	3.280 -20.833 -28.884 1.00 10.88	N
ANISOU 2562 N TYR A 166	1343 1642 1147 153 -139 72	N
ATOM 2563 CA TYR A 166	3.123 -19.601 -28.128 1.00 11.58	C
ANISOU 2563 CA TYR A 166	1435 1712 1252 198 -146 77	C
ATOM 2564 C TYR A 166	3.972 -19.608 -26.861 1.00 11.03	C
ANISOU 2564 C TYR A 166	1348 1614 1230 178 -130 59	C
ATOM 2565 O TYR A 166	4.401 -20.651 -26.356 1.00 10.79	O
ANISOU 2565 O TYR A 166	1292 1595 1212 140 -118 52	O
ATOM 2566 CB TYR A 166	1.645 -19.339 -27.794 1.00 12.55	C

ANISOU 2566 CB TYR A 166	1513 1903 1352 246 -186 62	C
ATOM 2567 CG TYR A 166	0.981 -20.242 -26.779 1.00 13.08	C
ANISOU 2567 CG TYR A 166	1504 2031 1433 224 -181 44	C
ATOM 2568 CD1 TYR A 166	1.363 -20.230 -25.437 1.00 12.67	C
ANISOU 2568 CD1 TYR A 166	1440 1978 1395 226 -157 40	C
ATOM 2569 CD2 TYR A 166	-0.092 -21.056 -27.144 1.00 14.13	C
ANISOU 2569 CD2 TYR A 166	1576 2222 1569 209 -198 29	C
ATOM 2570 CE1 TYR A 166	0.734 -21.027 -24.509 1.00 13.25	C
ANISOU 2570 CE1 TYR A 166	1458 2107 1469 216 -131 43	C
ATOM 2571 CE2 TYR A 166	-0.729 -21.856 -26.215 1.00 13.95	C
ANISOU 2571 CE2 TYR A 166	1479 2242 1578 183 -170 27	C
ATOM 2572 CZ TYR A 166	-0.316 -21.834 -24.900 1.00 14.22	C
ANISOU 2572 CZ TYR A 166	1518 2275 1611 189 -127 45	C
ATOM 2573 OH TYR A 166	-0.926 -22.621 -23.943 1.00 16.46	O
ANISOU 2573 OH TYR A 166	1742 2600 1913 173 -78 63	O
ATOM 2574 H TYR A 166	2.582 -21.333 -28.922 1.00 13.05	H
ATOM 2575 HA TYR A 166	3.430 -18.864 -28.678 1.00 13.89	H
ATOM 2576 HB2 TYR A 166	1.571 -18.433 -27.457 1.00 15.06	H
ATOM 2577 HB3 TYR A 166	1.135 -19.415 -28.615 1.00 15.06	H
ATOM 2578 HD1 TYR A 166	2.068 -19.686 -25.168 1.00 15.20	H
ATOM 2579 HD2 TYR A 166	-0.375 -21.070 -28.030 1.00 16.95	H
ATOM 2580 HE1 TYR A 166	1.010 -21.016 -23.620 1.00 15.90	H
ATOM 2581 HE2 TYR A 166	-1.435 -22.404 -26.475 1.00 16.73	H
ATOM 2582 HH TYR A 166	-1.547 -23.067 -24.291 1.00 19.75	H
ATOM 2583 N GLN A 167	4.206 -18.400 -26.355 1.00 9.96	N
ANISOU 2583 N GLN A 167	1227 1435 1122 215 -138 47	N
ATOM 2584 CA GLN A 167	5.055 -18.167 -25.196 1.00 10.99	C
ANISOU 2584 CA GLN A 167	1343 1535 1297 215 -145 8	C
ATOM 2585 C GLN A 167	4.439 -16.980 -24.469 1.00 12.34	C
ANISOU 2585 C GLN A 167	1514 1705 1469 282 -175 -24	C
ATOM 2586 O GLN A 167	4.531 -15.845 -24.955 1.00 13.19	O
ANISOU 2586 O GLN A 167	1653 1743 1617 304 -176 -20	O
ATOM 2587 CB GLN A 167	6.486 -17.884 -25.643 1.00 12.60	C
ANISOU 2587 CB GLN A 167	1565 1647 1576 175 -118 6	C
ATOM 2588 CG GLN A 167	7.493 -17.643 -24.545 1.00 12.74	C
ANISOU 2588 CG GLN A 167	1555 1628 1658 175 -144 -54	C
ATOM 2589 CD GLN A 167	8.886 -17.442 -25.113 1.00 13.94	C
ANISOU 2589 CD GLN A 167	1700 1687 1910 125 -109 -59	C
ATOM 2590 OE1 GLN A 167	9.131 -16.513 -25.894 1.00 14.43	O
ANISOU 2590 OE1 GLN A 167	1785 1669 2029 114 -69 -35	O
ATOM 2591 NE2 GLN A 167	9.800 -18.321 -24.746 1.00 13.89	N
ANISOU 2591 NE2 GLN A 167	1659 1687 1931 97 -114 -85	N
ATOM 2592 H GLN A 167	3.870 -17.677 -26.679 1.00 11.95	H
ATOM 2593 HA GLN A 167	5.048 -18.941 -24.612 1.00 13.18	H
ATOM 2594 HB2 GLN A 167	6.799 -18.644 -26.159 1.00 15.12	H
ATOM 2595 HB3 GLN A 167	6.479 -17.094 -26.205 1.00 15.12	H
ATOM 2596 HG2 GLN A 167	7.246 -16.845 -24.052 1.00 15.29	H
ATOM 2597 HG3 GLN A 167	7.513 -18.412 -23.953 1.00 15.29	H
ATOM 2598 HE21 GLN A 167	9.590 -18.963 -24.214 1.00 16.67	H
ATOM 2599 HE22 GLN A 167	10.605 -18.251 -25.040 1.00 16.67	H
ATOM 2600 N AVAL A 168	3.784 -17.226 -23.335 0.16 12.27	N
ANISOU 2600 N AVAL A 168	1474 1770 1417 320 -191 -51	N
ATOM 2601 N BVAL A 168	3.834 -17.245 -23.314 0.84 12.20	N

ANISOU 2601	N	BVAL A 168	1466	1761	1410	318	-191	-52	N
ATOM 2602	CA	AVAL A 168	2.957	-16.210	-22.691	0.16	12.80		C
ANISOU 2602	CA	AVAL A 168	1537	1857	1469	396	-215	-86	C
ATOM 2603	CA	BVAL A 168	2.948	-16.297	-22.643	0.84	12.68		C
ANISOU 2603	CA	BVAL A 168	1520	1849	1451	395	-213	-86	C
ATOM 2604	C	AVAL A 168	3.288	-16.128	-21.208	0.16	13.48		C
ANISOU 2604	C	AVAL A 168	1615	1973	1533	440	-235	-147	C
ATOM 2605	C	BVAL A 168	3.357	-16.137	-21.184	0.84	13.49		C
ANISOU 2605	C	BVAL A 168	1616	1972	1536	439	-236	-149	C
ATOM 2606	O	AVAL A 168	3.543	-17.147	-20.556	0.16	13.43		O
ANISOU 2606	O	AVAL A 168	1598	2020	1486	427	-223	-137	O
ATOM 2607	O	BVAL A 168	3.712	-17.113	-20.516	0.84	13.61		O
ANISOU 2607	O	BVAL A 168	1623	2034	1514	426	-227	-143	O
ATOM 2608	CB	AVAL A 168	1.453	-16.497	-22.890	0.16	12.97		C
ANISOU 2608	CB	AVAL A 168	1523	1965	1441	424	-205	-60	C
ATOM 2609	CB	BVAL A 168	1.479	-16.769	-22.743	0.84	12.89		C
ANISOU 2609	CB	BVAL A 168	1506	1968	1424	417	-199	-58	C
ATOM 2610	CG1	AVAL A 168	1.086	-16.412	-24.366	0.16	12.95		C
ANISOU 2610	CG1	AVAL A 168	1536	1940	1446	408	-210	-18	C
ATOM 2611	CG1	BVAL A 168	0.545	-15.978	-21.814	0.84	13.75		C
ANISOU 2611	CG1	BVAL A 168	1593	2126	1505	504	-209	-100	C
ATOM 2612	CG2	AVAL A 168	1.084	-17.860	-22.321	0.16	12.88		C
ANISOU 2612	CG2	AVAL A 168	1468	2035	1390	394	-171	-38	C
ATOM 2613	CG2	BVAL A 168	1.004	-16.696	-24.208	0.84	12.84		C
ANISOU 2613	CG2	BVAL A 168	1509	1945	1424	401	-206	-19	C
ATOM 2614	H	AVAL A 168	3.803	-17.977	-22.918	0.16	14.72		H
ATOM 2615	H	BVAL A 168	3.925	-17.987	-22.888	0.84	14.65		H
ATOM 2616	HA	AVAL A 168	3.152	-15.347	-23.089	0.16	15.36		H
ATOM 2617	HA	BVAL A 168	3.019	-15.432	-23.075	0.84	15.22		H
ATOM 2618	HB	AVAL A 168	0.939	-15.825	-22.415	0.16	15.57		H
ATOM 2619	HB	BVAL A 168	1.438	-17.699	-22.472	0.84	15.47		H
ATOM 2620	HG11	AVAL A 168	0.139	-16.595	-24.467	0.16	15.55		H
ATOM 2621	HG11	BVAL A 168	1.066	-15.318	-21.330	0.84	16.50		H
ATOM 2622	HG12	AVAL A 168	1.287	-15.520	-24.691	0.16	15.55		H
ATOM 2623	HG12	BVAL A 168	-0.133	-15.536	-22.349	0.84	16.50		H
ATOM 2624	HG13	AVAL A 168	1.604	-17.068	-24.858	0.16	15.55		H
ATOM 2625	HG13	BVAL A 168	0.127	-16.592	-21.190	0.84	16.50		H
ATOM 2626	HG21	AVAL A 168	1.879	-18.271	-21.947	0.16	15.45		H
ATOM 2627	HG21	BVAL A 168	1.731	-16.367	-24.759	0.84	15.41		H
ATOM 2628	HG22	AVAL A 168	0.415	-17.742	-21.628	0.16	15.45		H
ATOM 2629	HG22	BVAL A 168	0.742	-17.583	-24.499	0.84	15.41		H
ATOM 2630	HG23	AVAL A 168	0.729	-18.414	-23.034	0.16	15.45		H
ATOM 2631	HG23	BVAL A 168	0.247	-16.092	-24.264	0.84	15.41		H
ATOM 2632	N	MET A 169	3.273	-14.905	-20.680	1.00	14.19		N
ANISOU 2632	N	MET A 169	1717	2027	1648	503	-271	-212	N
ATOM 2633	CA	MET A 169	3.418	-14.655	-19.246	1.00	14.96		C
ANISOU 2633	CA	MET A 169	1814	2167	1705	573	-304	-291	C
ATOM 2634	C	MET A 169	2.018	-14.730	-18.656	1.00	15.19		C
ANISOU 2634	C	MET A 169	1824	2304	1646	643	-275	-282	C
ATOM 2635	O	MET A 169	1.222	-13.786	-18.773	1.00	15.04		O
ANISOU 2635	O	MET A 169	1799	2276	1639	697	-283	-307	O
ATOM 2636	CB	MET A 169	4.066	-13.304	-18.969	1.00	15.82		C
ANISOU 2636	CB	MET A 169	1938	2176	1897	608	-361	-386	C

ATOM 2637 CG MET A 169	4.442 -13.125 -17.505 1.00 16.14	C
ANISOU 2637 CG MET A 169	1982 2260 1889 685 -417 -492	C
ATOM 2638 SD MET A 169	5.705 -14.324 -16.995 1.00 15.56	S
ANISOU 2638 SD MET A 169	1904 2217 1792 649 -441 -494	S
ATOM 2639 CE MET A 169	5.393 -14.423 -15.229 1.00 17.11	C
ANISOU 2639 CE MET A 169	2126 2542 1835 785 -482 -572	C
ATOM 2640 H AMET A 169	3.179 -14.187 -21.143 0.16 17.03	H
ATOM 2641 H BMET A 169	3.133 -14.197 -21.147 0.84 17.03	H
ATOM 2642 HA MET A 169	3.972 -15.347 -18.852 1.00 17.96	H
ATOM 2643 HB2 MET A 169	4.874 -13.226 -19.499 1.00 18.99	H
ATOM 2644 HB3 MET A 169	3.443 -12.600 -19.207 1.00 18.99	H
ATOM 2645 HG2 MET A 169	4.798 -12.233 -17.372 1.00 19.36	H
ATOM 2646 HG3 MET A 169	3.655 -13.259 -16.953 1.00 19.36	H
ATOM 2647 HE1 MET A 169	6.020 -15.048 -14.833 1.00 20.54	H
ATOM 2648 HE2 MET A 169	5.511 -13.543 -14.839 1.00 20.54	H
ATOM 2649 HE3 MET A 169	4.484 -14.730 -15.086 1.00 20.54	H
ATOM 2650 N ALA A 170	1.723 -15.849 -18.010 1.00 12.97	N
ANISOU 2650 N ALA A 170	1528 2118 1283 644 -233 -242	N
ATOM 2651 CA ALA A 170	0.355 -16.268 -17.775 1.00 12.43	C
ANISOU 2651 CA ALA A 170	1418 2146 1157 673 -171 -199	C
ATOM 2652 C ALA A 170	-0.038 -16.156 -16.312 1.00 14.05	C
ANISOU 2652 C ALA A 170	1632 2445 1263 775 -147 -237	C
ATOM 2653 O ALA A 170	0.796 -16.167 -15.400 1.00 14.67	O
ANISOU 2653 O ALA A 170	1755 2533 1287 820 -180 -282	O
ATOM 2654 CB ALA A 170	0.151 -17.718 -18.234 1.00 12.82	C
ANISOU 2654 CB ALA A 170	1439 2226 1208 590 -114 -109	C
ATOM 2655 H ALA A 170	2.310 -16.391 -17.694 1.00 15.57	H
ATOM 2656 HA ALA A 170	-0.241 -15.703 -18.290 1.00 14.91	H
ATOM 2657 HB1 ALA A 170	-0.769 -17.975 -18.067 1.00 15.39	H
ATOM 2658 HB2 ALA A 170	0.345 -17.779 -19.183 1.00 15.39	H
ATOM 2659 HB3 ALA A 170	0.752 -18.294 -17.736 1.00 15.39	H
ATOM 2660 N THR A 171	-1.347 -16.058 -16.124 1.00 14.45	N
ANISOU 2660 N THR A 171	1635 2570 1286 818 -90 -221	N
ATOM 2661 CA THR A 171	-2.015 -16.372 -14.875 1.00 15.63	C
ANISOU 2661 CA THR A 171	1776 2832 1328 900 -16 -213	C
ATOM 2662 C THR A 171	-2.723 -17.708 -15.067 1.00 15.49	C
ANISOU 2662 C THR A 171	1702 2865 1319 830 85 -102	C
ATOM 2663 O THR A 171	-3.523 -17.861 -15.995 1.00 16.56	O
ANISOU 2663 O THR A 171	1765 2990 1536 772 103 -74	O
ATOM 2664 CB THR A 171	-3.006 -15.267 -14.506 1.00 17.45	C
ANISOU 2664 CB THR A 171	1979 3107 1543 1002 -9 -281	C
ATOM 2665 OG1 THR A 171	-2.298 -14.029 -14.322 1.00 17.00	O
ANISOU 2665 OG1 THR A 171	1977 2981 1501 1063 -107 -393	O
ATOM 2666 CG2 THR A 171	-3.746 -15.624 -13.235 1.00 19.42	C
ANISOU 2666 CG2 THR A 171	2219 3485 1674 1092 92 -265	C
ATOM 2667 H THR A 171	-1.891 -15.799 -16.737 1.00 17.34	H
ATOM 2668 HA THR A 171	-1.362 -16.460 -14.164 1.00 18.75	H
ATOM 2669 HB THR A 171	-3.655 -15.163 -15.219 1.00 20.94	H
ATOM 2670 HG1 THR A 171	-1.900 -13.818 -15.031 1.00 20.40	H
ATOM 2671 HG21 THR A 171	-4.372 -14.919 -13.007 1.00 23.30	H
ATOM 2672 HG22 THR A 171	-4.235 -16.452 -13.358 1.00 23.30	H
ATOM 2673 HG23 THR A 171	-3.116 -15.734 -12.505 1.00 23.30	H
ATOM 2674 N ALA A 172	-2.414 -18.680 -14.217 1.00 16.85	N

ANISOU 2674	N	ALA A 172	1905	3082	1413	838	147	-42	N
ATOM 2675	CA	ALA A 172	-2.995	-20.011	-14.339	1.00	18.45		C
ANISOU 2675	CA	ALA A 172	2057	3308	1644	764	252	68	C
ATOM 2676	C	ALA A 172	-3.499	-20.464	-12.982	1.00	21.91		C
ANISOU 2676	C	ALA A 172	2510	3847	1967	846	372	126	C
ATOM 2677	O	ALA A 172	-3.005	-20.026	-11.941	1.00	22.67		O
ANISOU 2677	O	ALA A 172	2688	3992	1935	958	352	86	O
ATOM 2678	CB	ALA A 172	-1.990	-21.029	-14.885	1.00	18.92		C
ANISOU 2678	CB	ALA A 172	2149	3291	1748	669	224	120	C
ATOM 2679	H	ALA A 172	-1.868	-18.595	-13.558	1.00	20.21		H
ATOM 2680	HA	ALA A 172	-3.750	-19.975	-14.947	1.00	22.14		H
ATOM 2681	HB1	ALA A 172	-2.422	-21.895	-14.947	1.00	22.70		H
ATOM 2682	HB2	ALA A 172	-1.695	-20.742	-15.763	1.00	22.70		H
ATOM 2683	HB3	ALA A 172	-1.233	-21.079	-14.281	1.00	22.70		H
ATOM 2684	N	GLY A 173	-4.496	-21.341	-13.001	1.00	23.11		N
ANISOU 2684	N	GLY A 173	2583	4029	2169	795	499	217	N
ATOM 2685	CA	GLY A 173	-5.102	-21.761	-11.752	1.00	24.95		C
ANISOU 2685	CA	GLY A 173	2829	4342	2310	864	635	289	C
ATOM 2686	C	GLY A 173	-5.873	-23.054	-11.880	1.00	26.13		C
ANISOU 2686	C	GLY A 173	2902	4465	2562	761	767	409	C
ATOM 2687	O	GLY A 173	-6.119	-23.565	-12.974	1.00	24.06		O
ANISOU 2687	O	GLY A 173	2546	4159	2435	653	769	423	O
ATOM 2688	H	GLY A 173	-4.830	-21.700	-13.708	1.00	27.73		H
ATOM 2689	HA2	GLY A 173	-4.410	-21.882	-11.083	1.00	29.94		H
ATOM 2690	HA3	GLY A 173	-5.710	-21.071	-11.442	1.00	29.94		H
ATOM 2691	N	TYR A 174	-6.257	-23.576	-10.717	1.00	29.89		N
ANISOU 2691	N	TYR A 174	3419	4959	2980	797	873	487	N
ATOM 2692	CA	TYR A 174	-6.976	-24.842	-10.636	1.00	31.90		C
ANISOU 2692	CA	TYR A 174	3614	5169	3337	703	1012	602	C
ATOM 2693	C	TYR A 174	-7.857	-24.785	-9.395	1.00	33.28		C
ANISOU 2693	C	TYR A 174	3799	5398	3448	771	1133	644	C
ATOM 2694	O	TYR A 174	-7.340	-24.696	-8.278	1.00	34.46		O
ANISOU 2694	O	TYR A 174	4067	5582	3444	878	1133	668	O
ATOM 2695	CB	TYR A 174	-6.008	-26.020	-10.578	1.00	33.49		C
ANISOU 2695	CB	TYR A 174	3895	5297	3534	660	1016	695	C
ATOM 2696	CG	TYR A 174	-6.682	-27.378	-10.531	1.00	35.94		C
ANISOU 2696	CG	TYR A 174	4151	5535	3972	556	1153	809	C
ATOM 2697	CD1	TYR A 174	-7.253	-27.929	-11.666	1.00	36.43		C
ANISOU 2697	CD1	TYR A 174	4081	5531	4228	417	1169	801	C
ATOM 2698	CD2	TYR A 174	-6.737	-28.111	-9.350	1.00	38.79		C
ANISOU 2698	CD2	TYR A 174	4588	5886	4263	601	1258	916	C
ATOM 2699	CE1	TYR A 174	-7.864	-29.170	-11.631	1.00	38.20		C
ANISOU 2699	CE1	TYR A 174	4251	5674	4590	315	1283	885	C
ATOM 2700	CE2	TYR A 174	-7.350	-29.350	-9.305	1.00	40.67		C
ANISOU 2700	CE2	TYR A 174	4778	6045	4631	504	1385	1018	C
ATOM 2701	CZ	TYR A 174	-7.910	-29.875	-10.452	1.00	40.81		C
ANISOU 2701	CZ	TYR A 174	4661	5989	4855	357	1395	996	C
ATOM 2702	OH	TYR A 174	-8.522	-31.108	-10.420	1.00	42.87		O
ANISOU 2702	OH	TYR A 174	4867	6160	5263	256	1510	1080	O
ATOM 2703	H	TYR A 174	-6.111	-23.210	-9.953	1.00	35.87		H
ATOM 2704	HA	TYR A 174	-7.544	-24.946	-11.415	1.00	38.27		H
ATOM 2705	HB2	TYR A 174	-5.444	-25.998	-11.367	1.00	40.19		H
ATOM 2706	HB3	TYR A 174	-5.461	-25.935	-9.781	1.00	40.19		H

ATOM 2707	HD1 TYR A 174	-7.224 -27.457 -12.466	1.00 43.71	H
ATOM 2708	HD2 TYR A 174	-6.360 -27.760 -8.576	1.00 46.54	H
ATOM 2709	HE1 TYR A 174	-8.245 -29.524 -12.402	1.00 45.84	H
ATOM 2710	HE2 TYR A 174	-7.380 -29.828 -8.508	1.00 48.81	H
ATOM 2711	HH TYR A 174	-8.818 -31.301 -11.182	1.00 51.45	H
ATOM 2712	N GLN A 175	-9.173 -24.799 -9.594	1.00 32.75	N
ANISOU 2712	N GLN A 175	3602 5342 3498	716 1228 641	N
ATOM 2713	CA GLN A 175	-10.146 -24.786 -8.501	1.00 33.81	C
ANISOU 2713	CA GLN A 175	3725 5530 3593	767 1365 681	C
ATOM 2714	C GLN A 175	-9.770 -23.744 -7.452	1.00 33.99	C
ANISOU 2714	C GLN A 175	3862 5637 3417	931 1317 629	C
ATOM 2715	O GLN A 175	-9.538 -24.050 -6.284	1.00 34.42	O
ANISOU 2715	O GLN A 175	4018 5719 3341	1012 1377 697	O
ATOM 2716	CB GLN A 175	-10.270 -26.177 -7.869	1.00 35.92	C
ANISOU 2716	CB GLN A 175	4019 5744 3885	715 1506 826	C
ATOM 2717	CG GLN A 175	-10.318 -27.301 -8.888	1.00 37.05	C
ANISOU 2717	CG GLN A 175	4077 5780 4220	556 1522 869	C
ATOM 2718	CD GLN A 175	-10.630 -28.661 -8.286	1.00 40.91	C
ANISOU 2718	CD GLN A 175	4576 6202 4766	497 1671 1007	C
ATOM 2719	OE1 GLN A 175	-11.250 -29.504 -8.938	1.00 42.22	O
ANISOU 2719	OE1 GLN A 175	4626 6291 5126	362 1727 1027	O
ATOM 2720	NE2 GLN A 175	-10.194 -28.890 -7.048	1.00 42.67	N
ANISOU 2720	NE2 GLN A 175	4936 6449 4826	604 1728 1096	N
ATOM 2721	H GLN A 175	-9.537 -24.816 -10.374	1.00 39.29	H
ATOM 2722	HA GLN A 175	-11.015 -24.546 -8.859	1.00 40.58	H
ATOM 2723	HB2 GLN A 175	-9.504 -26.329 -7.293	1.00 43.10	H
ATOM 2724	HB3 GLN A 175	-11.087 -26.212 -7.347	1.00 43.10	H
ATOM 2725	HG2 GLN A 175	-11.005 -27.100 -9.542	1.00 44.46	H
ATOM 2726	HG3 GLN A 175	-9.455 -27.361 -9.327	1.00 44.46	H
ATOM 2727	HE21 GLN A 175	-9.757 -28.281 -6.627	1.00 51.20	H
ATOM 2728	HE22 GLN A 175	-10.349 -29.647 -6.671	1.00 51.20	H
ATOM 2729	N SER A 176	-9.722 -22.489 -7.891	1.00 33.83	N
ANISOU 2729	N SER A 176	3822 5653 3378	985 1200 502	N
ATOM 2730	CA SER A 176	-9.245 -21.415 -7.037	1.00 34.38	C
ANISOU 2730	CA SER A 176	3996 5785 3281	1133 1120 423	C
ATOM 2731	C SER A 176	-9.942 -20.114 -7.412	1.00 32.79	C
ANISOU 2731	C SER A 176	3720 5621 3117	1175 1067 298	C
ATOM 2732	O SER A 176	-10.754 -20.060 -8.340	1.00 32.83	O
ANISOU 2732	O SER A 176	3595 5609 3271	1097 1085 276	O
ATOM 2733	CB SER A 176	-7.723 -21.276 -7.143	1.00 33.33	C
ANISOU 2733	CB SER A 176	3976 5621 3065	1169 968 385	C
ATOM 2734	OG SER A 176	-7.323 -20.937 -8.463	1.00 31.68	O
ANISOU 2734	OG SER A 176	3717 5364 2955	1099 859 318	O
ATOM 2735	H SER A 176	-9.961 -22.237 -8.677	1.00 40.59	H
ATOM 2736	HA SER A 176	-9.465 -21.620 -6.115	1.00 41.26	H
ATOM 2737	HB2 SER A 176	-7.429 -20.579 -6.537	1.00 39.99	H
ATOM 2738	HB3 SER A 176	-7.313 -22.121 -6.898	1.00 39.99	H
ATOM 2739	HG SER A 176	-6.487 -20.866 -8.501	1.00 38.02	H
ATOM 2740	N ASER A 177	-9.619 -19.063 -6.663	0.58 31.52	N
ANISOU 2740	N ASER A 177	3641 5507 2827	1306 991 210	N
ATOM 2741	N BSER A 177	-9.623 -19.062 -6.661	0.42 31.55	N
ANISOU 2741	N BSER A 177	3645 5512 2831	1306 991 210	N
ATOM 2742	CA ASER A 177	-10.122 -17.722 -6.914	0.58 30.89	C

ANISOU 2742	CA	ASER A 177	3516	5451	2771	1365	921	83	C
ATOM 2743	CA	BSER A 177	-10.122	-17.722	-6.922	0.42	30.88		C
ANISOU 2743	CA	BSER A 177	3514	5448	2770	1365	921	83	C
ATOM 2744	C	ASER A 177	-8.953	-16.755	-6.802	0.58	29.62		C
ANISOU 2744	C	ASER A 177	3459	5271	2523	1449	747	-29	C
ATOM 2745	C	BSER A 177	-8.959	-16.750	-6.792	0.42	29.61		C
ANISOU 2745	C	BSER A 177	3459	5271	2522	1450	747	-29	C
ATOM 2746	O	ASER A 177	-7.908	-17.080	-6.231	0.58	29.60		O
ANISOU 2746	O	ASER A 177	3560	5264	2422	1485	697	-13	O
ATOM 2747	O	BSER A 177	-7.926	-17.067	-6.194	0.42	29.63		O
ANISOU 2747	O	BSER A 177	3565	5270	2423	1489	699	-13	O
ATOM 2748	CB	ASER A 177	-11.234	-17.341	-5.927	0.58	32.76		C
ANISOU 2748	CB	ASER A 177	3725	5763	2958	1446	1037	76	C
ATOM 2749	CB	BSER A 177	-11.251	-17.337	-5.957	0.42	32.73		C
ANISOU 2749	CB	BSER A 177	3718	5758	2959	1444	1037	75	C
ATOM 2750	OG	ASER A 177	-12.227	-18.352	-5.861	0.58	33.63		O
ANISOU 2750	OG	ASER A 177	3743	5883	3152	1365	1214	184	O
ATOM 2751	OG	BSER A 177	-10.769	-17.200	-4.631	0.42	33.97		O
ANISOU 2751	OG	BSER A 177	3999	5969	2939	1563	1039	76	O
ATOM 2752	H	ASER A 177	-9.094	-19.107	-5.983	0.58	37.82		H
ATOM 2753	H	BSER A 177	-9.104	-19.105	-5.977	0.42	37.86		H
ATOM 2754	HA	ASER A 177	-10.478	-17.673	-7.815	0.58	37.07		H
ATOM 2755	HA	BSER A 177	-10.463	-17.674	-7.829	0.42	37.05		H
ATOM 2756	HB2	ASER A 177	-10.846	-17.223	-5.045	0.58	39.31		H
ATOM 2757	HB2	BSER A 177	-11.634	-16.493	-6.241	0.42	39.27		H
ATOM 2758	HB3	ASER A 177	-11.645	-16.513	-6.220	0.58	39.31		H
ATOM 2759	HB3	BSER A 177	-11.929	-18.031	-5.974	0.42	39.27		H
ATOM 2760	HG	ASER A 177	-12.827	-18.129	-5.318	0.58	40.35		H
ATOM 2761	HG	BSER A 177	-11.399	-16.989	-4.116	0.42	40.76		H
ATOM 2762	N	GLY A 178	-9.128	-15.567	-7.361	1.00	28.59		N
ANISOU 2762	N	GLY A 178	3296	5120	2446	1478	650	-146	N
ATOM 2763	CA	GLY A 178	-8.111	-14.544	-7.244	1.00	27.16		C
ANISOU 2763	CA	GLY A 178	3201	4905	2215	1550	489	-267	C
ATOM 2764	C	GLY A 178	-8.286	-13.445	-8.272	1.00	25.79		C
ANISOU 2764	C	GLY A 178	2978	4668	2153	1540	390	-368	C
ATOM 2765	O	GLY A 178	-9.288	-13.377	-8.980	1.00	24.78		O
ANISOU 2765	O	GLY A 178	2750	4540	2127	1499	439	-353	O
ATOM 2766	H	GLY A 178	-9.822	-15.336	-7.814	1.00	34.31		H
ATOM 2767	HA2	GLY A 178	-8.151	-14.148	-6.359	1.00	32.60		H
ATOM 2768	HA3	GLY A 178	-7.235	-14.943	-7.364	1.00	32.60		H
ATOM 2769	N	ASER A 179	-7.276	-12.580	-8.321	0.68	26.25		N
ANISOU 2769	N	ASER A 179	3107	4664	2203	1579	246	-474	N
ATOM 2770	N	BSER A 179	-7.279	-12.574	-8.318	0.32	26.26		N
ANISOU 2770	N	BSER A 179	3108	4665	2203	1580	246	-474	N
ATOM 2771	CA	ASER A 179	-7.229	-11.488	-9.279	0.68	25.48		C
ANISOU 2771	CA	ASER A 179	2988	4478	2217	1571	143	-566	C
ATOM 2772	CA	BSER A 179	-7.250	-11.468	-9.261	0.32	25.56		C
ANISOU 2772	CA	BSER A 179	2997	4488	2225	1573	144	-568	C
ATOM 2773	C	ASER A 179	-5.779	-11.234	-9.650	0.68	24.27		C
ANISOU 2773	C	ASER A 179	2903	4230	2088	1546	15	-625	C
ATOM 2774	C	BSER A 179	-5.807	-11.226	-9.674	0.32	24.20		C
ANISOU 2774	C	BSER A 179	2893	4221	2082	1545	16	-625	C
ATOM 2775	O	ASER A 179	-4.889	-11.333	-8.799	0.68	25.00		O

ANISOU 2775	O	ASER A 179	3067	4335	2099	1586	-33	-657	O
ATOM 2776	O	BSER A 179	-4.881	-11.401	-8.876	0.32	24.96		O
ANISOU 2776	O	BSER A 179	3058	4328	2098	1578	-30	-650	O
ATOM 2777	CB	ASER A 179	-7.859	-10.208	-8.713	0.68	27.89		C
ANISOU 2777	CB	ASER A 179	3296	4790	2512	1671	112	-670	C
ATOM 2778	CB	BSER A 179	-7.852	-10.190	-8.659	0.32	27.89		C
ANISOU 2778	CB	BSER A 179	3298	4792	2508	1676	112	-673	C
ATOM 2779	OG	ASER A 179	-9.255	-10.357	-8.579	0.68	29.03		O
ANISOU 2779	OG	ASER A 179	3357	5006	2666	1687	230	-625	O
ATOM 2780	OG	BSER A 179	-6.842	-9.334	-8.154	0.32	28.15		O
ANISOU 2780	OG	BSER A 179	3414	4771	2513	1733	-15	-786	O
ATOM 2781	H	ASER A 179	-6.594	-12.608	-7.798	0.68	31.50		H
ATOM 2782	H	BSER A 179	-6.591	-12.607	-7.803	0.32	31.51		H
ATOM 2783	HA	ASER A 179	-7.713	-11.740	-10.082	0.68	30.58		H
ATOM 2784	HA	BSER A 179	-7.760	-11.704	-10.051	0.32	30.67		H
ATOM 2785	HB2	ASER A 179	-7.475	-10.026	-7.840	0.68	33.47		H
ATOM 2786	HB2	BSER A 179	-8.346	-9.720	-9.349	0.32	33.47		H
ATOM 2787	HB3	ASER A 179	-7.675	-9.471	-9.316	0.68	33.47		H
ATOM 2788	HB3	BSER A 179	-8.448	-10.435	-7.934	0.32	33.47		H
ATOM 2789	HG	ASER A 179	-9.591	-9.653	-8.269	0.68	34.83		H
ATOM 2790	HG	BSER A 179	-6.405	-9.727	-7.554	0.32	33.79		H
ATOM 2791	N	ASER A 180	-5.552	-10.899	-10.920	0.68	22.03		N
ANISOU 2791	N	ASER A 180	2595	3849	1928	1483	-41	-639	N
ATOM 2792	N	BSER A 180	-5.624	-10.816	-10.928	0.32	22.16		N
ANISOU 2792	N	BSER A 180	2608	3864	1947	1487	-42	-644	N
ATOM 2793	CA	ASER A 180	-4.230	-10.543	-11.402	0.68	19.58		C
ANISOU 2793	CA	ASER A 180	2338	3426	1676	1450	-152	-699	C
ATOM 2794	CA	BSER A 180	-4.299	-10.562	-11.467	0.32	19.86		C
ANISOU 2794	CA	BSER A 180	2369	3462	1716	1447	-147	-694	C
ATOM 2795	C	ASER A 180	-4.347	-9.437	-12.439	0.68	19.43		C
ANISOU 2795	C	ASER A 180	2304	3282	1795	1436	-218	-748	C
ATOM 2796	C	BSER A 180	-4.373	-9.409	-12.457	0.32	19.49		C
ANISOU 2796	C	BSER A 180	2312	3288	1806	1436	-219	-749	C
ATOM 2797	O	ASER A 180	-5.363	-9.306	-13.127	0.68	19.28		O
ANISOU 2797	O	ASER A 180	2226	3268	1830	1428	-180	-705	O
ATOM 2798	O	BSER A 180	-5.392	-9.210	-13.123	0.32	19.34		O
ANISOU 2798	O	BSER A 180	2235	3272	1842	1433	-184	-711	O
ATOM 2799	CB	ASER A 180	-3.505	-11.747	-12.020	0.68	18.30		C
ANISOU 2799	CB	ASER A 180	2174	3257	1521	1363	-127	-616	C
ATOM 2800	CB	BSER A 180	-3.733	-11.807	-12.160	0.32	18.25		C
ANISOU 2800	CB	BSER A 180	2153	3258	1523	1357	-111	-601	C
ATOM 2801	OG	ASER A 180	-3.930	-11.978	-13.356	0.68	17.35		O
ANISOU 2801	OG	ASER A 180	1991	3094	1506	1289	-104	-552	O
ATOM 2802	OG	BSER A 180	-2.365	-11.639	-12.480	0.32	17.74		O
ANISOU 2802	OG	BSER A 180	2139	3094	1506	1325	-204	-655	O
ATOM 2803	H	ASER A 180	-6.161	-10.873	-11.527	0.68	26.44		H
ATOM 2804	H	BSER A 180	-6.262	-10.678	-11.489	0.32	26.59		H
ATOM 2805	HA	ASER A 180	-3.697	-10.213	-10.663	0.68	23.50		H
ATOM 2806	HA	BSER A 180	-3.699	-10.311	-10.747	0.32	23.83		H
ATOM 2807	HB2	ASER A 180	-2.551	-11.573	-12.020	0.68	21.96		H
ATOM 2808	HB2	BSER A 180	-3.826	-12.567	-11.565	0.32	21.90		H
ATOM 2809	HB3	ASER A 180	-3.696	-12.536	-11.488	0.68	21.96		H
ATOM 2810	HB3	BSER A 180	-4.230	-11.965	-12.978	0.32	21.90		H

ATOM	2811	HG	ASER	A	180	-3.524	-12.639	-13.677	0.68	20.82	H
ATOM	2812	HG	BSER	A	180	-2.071	-12.329	-12.859	0.32	21.29	H
ATOM	2813	N	ASN	A	181	-3.284	-8.647	-12.543	1.00	20.01	N
ANISOU	2813	N	ASN	A	181	2430	3234	1938	1429	-321 -834	N
ATOM	2814	CA	ASN	A	181	-3.132	-7.655	-13.603	1.00	20.96	C
ANISOU	2814	CA	ASN	A	181	2554	3202	2209	1399	-379 -856	C
ATOM	2815	C	ASN	A	181	-1.658	-7.640	-13.973	1.00	20.95	C
ANISOU	2815	C	ASN	A	181	2590	3080	2289	1334	-447 -885	C
ATOM	2816	O	ASN	A	181	-0.800	-7.414	-13.112	1.00	20.66	O
ANISOU	2816	O	ASN	A	181	2586	3031	2234	1350	-509 -976	O
ATOM	2817	CB	ASN	A	181	-3.613	-6.274	-13.165	1.00	21.73	C
ANISOU	2817	CB	ASN	A	181	2665	3250	2342	1472	-422 -948	C
ATOM	2818	CG	ASN	A	181	-3.652	-5.282	-14.305	1.00	22.05	C
ANISOU	2818	CG	ASN	A	181	2712	3132	2535	1448	-460 -940	C
ATOM	2819	OD1	ASN	A	181	-2.665	-5.088	-15.014	1.00	22.43	O
ANISOU	2819	OD1	ASN	A	181	2788	3047	2687	1383	-500 -931	O
ATOM	2820	ND2	ASN	A	181	-4.804	-4.657	-14.500	1.00	22.53	N
ANISOU	2820	ND2	ASN	A	181	2747	3203	2611	1502	-441 -932	N
ATOM	2821	H	ASN	A	181	-2.619	-8.675	-11.999	1.00	24.01	H
ATOM	2822	HA	ASN	A	181	-3.643	-7.928	-14.381	1.00	25.16	H
ATOM	2823	HB2	ASN	A	181	-4.511	-6.351	-12.804	1.00	26.08	H
ATOM	2824	HB3	ASN	A	181	-3.011	-5.929	-12.487	1.00	26.08	H
ATOM	2825	HD21	ASN	A	181	-4.880	-4.082	-15.135	1.00	27.04	H
ATOM	2826	HD22	ASN	A	181	-5.477	-4.825	-13.991	1.00	27.04	H
ATOM	2827	N	VAL	A	182	-1.364	-7.930	-15.235	1.00	20.19	N
ANISOU	2827	N	VAL	A	182	2483	2903	2284	1262	-438 -806	N
ATOM	2828	CA	VAL	A	182	0.004	-8.131	-15.691	1.00	19.56	C
ANISOU	2828	CA	VAL	A	182	2429	2717	2286	1158	-476 -794	C
ATOM	2829	C	VAL	A	182	0.178	-7.433	-17.027	1.00	18.90	C
ANISOU	2829	C	VAL	A	182	2359	2478	2346	1097	-484 -736	C
ATOM	2830	O	VAL	A	182	-0.681	-7.534	-17.910	1.00	18.51	O
ANISOU	2830	O	VAL	A	182	2295	2445	2292	1090	-446 -642	O
ATOM	2831	CB	VAL	A	182	0.346	-9.632	-15.827	1.00	20.33	C
ANISOU	2831	CB	VAL	A	182	2514	2901	2309	1070	-429 -693	C
ATOM	2832	CG1	VAL	A	182	1.821	-9.813	-16.122	1.00	20.78	C
ANISOU	2832	CG1	VAL	A	182	2588	2859	2449	980	-472 -703	C
ATOM	2833	CG2	VAL	A	182	-0.045	-10.393	-14.583	1.00	19.91	C
ANISOU	2833	CG2	VAL	A	182	2457	3008	2101	1141	-395 -709	C
ATOM	2834	H	VAL	A	182	-1.952	-8.018	-15.857	1.00	24.23	H
ATOM	2835	HA	VAL	A	182	0.618	-7.733	-15.054	1.00	23.47	H
ATOM	2836	HB	VAL	A	182	-0.155	-10.002	-16.572	1.00	24.39	H
ATOM	2837	HG11	VAL	A	182	2.013	-10.761	-16.204	1.00	24.94	H
ATOM	2838	HG12	VAL	A	182	2.035	-9.359	-16.952	1.00	24.94	H
ATOM	2839	HG13	VAL	A	182	2.337	-9.432	-15.394	1.00	24.94	H
ATOM	2840	HG21	VAL	A	182	0.182	-11.328	-14.701	1.00	23.90	H
ATOM	2841	HG22	VAL	A	182	0.439	-10.027	-13.826	1.00	23.90	H
ATOM	2842	HG23	VAL	A	182	-1.000	-10.298	-14.443	1.00	23.90	H
ATOM	2843	N	THR	A	183	1.294	-6.726	-17.173	1.00	18.65	N
ANISOU	2843	N	THR	A	183	2350	2292	2443	1057	-532 -794	N
ATOM	2844	CA	THR	A	183	1.702	-6.151	-18.445	1.00	18.92	C
ANISOU	2844	CA	THR	A	183	2407	2165	2617	987	-517 -719	C
ATOM	2845	C	THR	A	183	2.963	-6.859	-18.908	1.00	18.55	C
ANISOU	2845	C	THR	A	183	2356	2074	2619	865	-502 -672	C

ATOM 2846 O THR A 183	3.893 -7.055 -18.117 1.00 18.71	O
ANISOU 2846 O THR A 183	2358 2094 2658 849 -545 -764	O
ATOM 2847 CB THR A 183	1.944 -4.645 -18.323 1.00 20.07	C
ANISOU 2847 CB THR A 183	2576 2139 2912 1035 -563 -814	C
ATOM 2848 OG1 THR A 183	0.792 -4.026 -17.746 1.00 20.50	O
ANISOU 2848 OG1 THR A 183	2629 2256 2903 1136 -575 -860	O
ATOM 2849 CG2 THR A 183	2.211 -4.036 -19.703 1.00 21.28	C
ANISOU 2849 CG2 THR A 183	2765 2123 3198 975 -523 -702	C
ATOM 2850 H THR A 183	1.843 -6.562 -16.532 1.00 22.38	H
ATOM 2851 HA THR A 183	1.007 -6.298 -19.105 1.00 22.71	H
ATOM 2852 HB THR A 183	2.716 -4.484 -17.758 1.00 24.09	H
ATOM 2853 HG1 THR A 183	0.916 -3.199 -17.675 1.00 24.60	H
ATOM 2854 HG21 THR A 183	2.363 -3.081 -19.620 1.00 25.54	H
ATOM 2855 HG22 THR A 183	2.995 -4.447 -20.100 1.00 25.54	H
ATOM 2856 HG23 THR A 183	1.449 -4.184 -20.284 1.00 25.54	H
ATOM 2857 N VAL A 184	2.985 -7.251 -20.180 1.00 18.07	N
ANISOU 2857 N VAL A 184	2310 1984 2572 793 -444 -538	N
ATOM 2858 CA VAL A 184	4.034 -8.090 -20.742 1.00 17.80	C
ANISOU 2858 CA VAL A 184	2269 1931 2563 683 -411 -478	C
ATOM 2859 C VAL A 184	4.658 -7.351 -21.914 1.00 19.00	C
ANISOU 2859 C VAL A 184	2453 1912 2854 626 -368 -409	C
ATOM 2860 O VAL A 184	3.946 -6.749 -22.728 1.00 19.00	O
ANISOU 2860 O VAL A 184	2496 1865 2858 663 -342 -333	O
ATOM 2861 CB VAL A 184	3.472 -9.454 -21.206 1.00 17.23	C
ANISOU 2861 CB VAL A 184	2187 2001 2358 653 -369 -378	C
ATOM 2862 CG1 VAL A 184	4.600 -10.416 -21.584 1.00 16.79	C
ANISOU 2862 CG1 VAL A 184	2120 1937 2321 553 -342 -340	C
ATOM 2863 CG2 VAL A 184	2.567 -10.057 -20.142 1.00 17.71	C
ANISOU 2863 CG2 VAL A 184	2219 2221 2289 719 -384 -418	C
ATOM 2864 H VAL A 184	2.380 -7.036 -20.753 1.00 21.69	H
ATOM 2865 HA VAL A 184	4.719 -8.247 -20.074 1.00 21.36	H
ATOM 2866 HB VAL A 184	2.934 -9.310 -22.000 1.00 20.67	H
ATOM 2867 HG11 VAL A 184	4.213 -11.258 -21.869 1.00 20.14	H
ATOM 2868 HG12 VAL A 184	5.117 -10.027 -22.307 1.00 20.14	H
ATOM 2869 HG13 VAL A 184	5.167 -10.557 -20.810 1.00 20.14	H
ATOM 2870 HG21 VAL A 184	2.231 -10.910 -20.461 1.00 21.25	H
ATOM 2871 HG22 VAL A 184	3.079 -10.186 -19.328 1.00 21.25	H
ATOM 2872 HG23 VAL A 184	1.828 -9.451 -19.976 1.00 21.25	H
ATOM 2873 N TRP A 185	5.981 -7.411 -22.014 1.00 18.56	N
ANISOU 2873 N TRP A 185	2376 1765 2911 542 -354 -429	N
ATOM 2874 CA TRP A 185	6.665 -6.804 -23.151 1.00 20.04	C
ANISOU 2874 CA TRP A 185	2590 1789 3234 477 -283 -345	C
ATOM 2875 C TRP A 185	8.048 -7.401 -23.348 1.00 20.72	C
ANISOU 2875 C TRP A 185	2631 1836 3404 373 -248 -346	C
ATOM 2876 O TRP A 185	8.508 -8.213 -22.545 1.00 20.50	O
ANISOU 2876 O TRP A 185	2553 1899 3338 358 -297 -423	O
ATOM 2877 CB TRP A 185	6.756 -5.286 -22.970 1.00 21.08	C
ANISOU 2877 CB TRP A 185	2736 1743 3531 510 -300 -403	C
ATOM 2878 CG TRP A 185	7.676 -4.817 -21.877 1.00 22.44	C
ANISOU 2878 CG TRP A 185	2843 1837 3845 492 -370 -572	C
ATOM 2879 CD1 TRP A 185	8.971 -4.417 -22.016 1.00 23.38	C
ANISOU 2879 CD1 TRP A 185	2915 1801 4169 403 -347 -611	C
ATOM 2880 CD2 TRP A 185	7.357 -4.665 -20.485 1.00 23.43	C

ANISOU 2880	CD2 TRP A 185	2940	2038	3923	574	-478	-736	C
ATOM 2881	NE1 TRP A 185	9.483	-4.026	-20.800	1.00	24.61		N
ANISOU 2881	NE1 TRP A 185	3007	1954	4391	414	-446	-787	N
ATOM 2882	CE2 TRP A 185	8.513	-4.173	-19.844	1.00	24.55		C
ANISOU 2882	CE2 TRP A 185	3019	2083	4225	526	-530	-868	C
ATOM 2883	CE3 TRP A 185	6.211	-4.905	-19.720	1.00	22.93		C
ANISOU 2883	CE3 TRP A 185	2894	2131	3686	681	-526	-776	C
ATOM 2884	CZ2 TRP A 185	8.559	-3.926	-18.473	1.00	25.98		C
ANISOU 2884	CZ2 TRP A 185	3164	2347	4359	581	-635	-1023	C
ATOM 2885	CZ3 TRP A 185	6.257	-4.659	-18.365	1.00	24.11		C
ANISOU 2885	CZ3 TRP A 185	3018	2328	3814	754	-621	-947	C
ATOM 2886	CH2 TRP A 185	7.423	-4.172	-17.752	1.00	25.80		C
ANISOU 2886	CH2 TRP A 185	3179	2473	4153	696	-676	-1057	C
ATOM 2887	OXT TRP A 185	8.719	-7.099	-24.335	1.00	21.58		O
ANISOU 2887	OXT TRP A 185	2755	1825	3618	308	-163	-264	O
ATOM 2888	H TRP A 185	6.501	-7.792	-21.445	1.00	22.27		H
ATOM 2889	HA TRP A 185	6.149	-6.977	-23.954	1.00	24.05		H
ATOM 2890	HB2 TRP A 185	7.070	-4.897	-23.802	1.00	25.30		H
ATOM 2891	HB3 TRP A 185	5.869	-4.948	-22.769	1.00	25.30		H
ATOM 2892	HD1 TRP A 185	9.438	-4.396	-22.821	1.00	28.06		H
ATOM 2893	HE1 TRP A 185	10.284	-3.745	-20.661	1.00	29.53		H
ATOM 2894	HE3 TRP A 185	5.435	-5.229	-20.117	1.00	27.51		H
ATOM 2895	HZ2 TRP A 185	9.330	-3.604	-18.065	1.00	31.17		H
ATOM 2896	HZ3 TRP A 185	5.500	-4.813	-17.848	1.00	28.93		H
ATOM 2897	HH2 TRP A 185	7.421	-4.012	-16.836	1.00	30.96		H
TER 2898	TRP A 185							
ATOM 2899	N MET B 1	-34.851	-5.247	-52.661	1.00	54.58		N
ANISOU 2899	N MET B 1	7142	7065	6531	780	-717	-328	N
ATOM 2900	CA MET B 1	-34.013	-6.088	-51.753	1.00	52.56		C
ANISOU 2900	CA MET B 1	6867	6777	6327	633	-665	-338	C
ATOM 2901	C MET B 1	-32.548	-5.648	-51.774	1.00	49.60		C
ANISOU 2901	C MET B 1	6560	6222	6063	517	-710	-185	C
ATOM 2902	O MET B 1	-31.946	-5.503	-52.838	1.00	51.52		O
ANISOU 2902	O MET B 1	6789	6457	6329	483	-688	-40	O
ATOM 2903	CB MET B 1	-34.119	-7.562	-52.149	1.00	52.15		C
ANISOU 2903	CB MET B 1	6689	6895	6233	554	-548	-372	C
ATOM 2904	H MET B 1	-35.691	-5.540	-52.644	1.00	65.50		H
ATOM 2905	HA MET B 1	-34.351	-6.001	-50.848	1.00	63.07		H
ATOM 2906	N SER B 2	-31.977	-5.431	-50.586	1.00	43.89		N
ANISOU 2906	N SER B 2	5904	5366	5405	461	-775	-211	N
ATOM 2907	CA SER B 2	-30.570	-5.058	-50.494	1.00	38.71		C
ANISOU 2907	CA SER B 2	5281	4544	4881	329	-841	-69	C
ATOM 2908	C SER B 2	-29.669	-6.287	-50.602	1.00	31.40		C
ANISOU 2908	C SER B 2	4240	3707	3983	204	-734	-7	C
ATOM 2909	O SER B 2	-28.728	-6.311	-51.402	1.00	32.12		O
ANISOU 2909	O SER B 2	4273	3788	4143	128	-698	157	O
ATOM 2910	CB SER B 2	-30.317	-4.313	-49.184	1.00	40.64		C
ANISOU 2910	CB SER B 2	5657	4603	5182	328	-991	-139	C
ATOM 2911	OG SER B 2	-31.135	-3.156	-49.087	1.00	43.12		O
ANISOU 2911	OG SER B 2	6100	4817	5466	473	-1095	-206	O
ATOM 2912	H SER B 2	-32.380	-5.494	-49.829	1.00	52.66		H
ATOM 2913	HA SER B 2	-30.352	-4.461	-51.227	1.00	46.45		H
ATOM 2914	HB2 SER B 2	-30.518	-4.904	-48.442	1.00	48.77		H

ATOM	2915	HB3	SER	B	2	-29.386	-4.044	-49.150	1.00	48.77	H
ATOM	2916	HG	SER	B	2	-31.946	-3.374	-49.115	1.00	51.74	H
ATOM	2917	N	THR	B	3	-29.953	-7.319	-49.818	1.00	23.94	N
ANISOU	2917	N	THR	B	3	3262	2854	2980	195	-674	N
ATOM	2918	CA	THR	B	3	-29.164	-8.542	-49.860	1.00	18.04	C
ANISOU	2918	CA	THR	B	3	2426	2178	2253	101	-580	C
ATOM	2919	C	THR	B	3	-29.503	-9.345	-51.113	1.00	15.80	C
ANISOU	2919	C	THR	B	3	2058	2048	1897	128	-455	C
ATOM	2920	O	THR	B	3	-30.575	-9.198	-51.704	1.00	14.13	O
ANISOU	2920	O	THR	B	3	1845	1920	1602	215	-440	O
ATOM	2921	CB	THR	B	3	-29.420	-9.391	-48.616	1.00	15.93	C
ANISOU	2921	CB	THR	B	3	2171	1942	1939	89	-560	C
ATOM	2922	OG1	THR	B	3	-30.828	-9.608	-48.465	1.00	16.27	O
ANISOU	2922	OG1	THR	B	3	2212	2095	1875	176	-509	O
ATOM	2923	CG2	THR	B	3	-28.885	-8.706	-47.383	1.00	16.58	C
ANISOU	2923	CG2	THR	B	3	2352	1876	2072	69	-697	C
ATOM	2924	H	THR	B	3	-30.600	-7.337	-49.251	1.00	28.73	H
ATOM	2925	HA	THR	B	3	-28.222	-8.316	-49.887	1.00	21.65	H
ATOM	2926	HB	THR	B	3	-28.971	-10.245	-48.711	1.00	19.11	H
ATOM	2927	HG1	THR	B	3	-30.975	-10.074	-47.782	1.00	19.52	H
ATOM	2928	HG21	THR	B	3	-29.052	-9.254	-46.600	1.00	19.90	H
ATOM	2929	HG22	THR	B	3	-27.929	-8.566	-47.471	1.00	19.90	H
ATOM	2930	HG23	THR	B	3	-29.320	-7.847	-47.266	1.00	19.90	H
ATOM	2931	N	ASP	B	4	-28.557	-10.194	-51.529	1.00	15.98	N
ANISOU	2931	N	ASP	B	4	2015	2108	1948	69	-376	N
ATOM	2932	CA	ASP	B	4	-28.787	-11.054	-52.686	1.00	17.19	C
ANISOU	2932	CA	ASP	B	4	2119	2398	2016	111	-268	C
ATOM	2933	C	ASP	B	4	-28.204	-12.453	-52.513	1.00	16.35	C
ANISOU	2933	C	ASP	B	4	1971	2333	1910	70	-185	C
ATOM	2934	O	ASP	B	4	-28.000	-13.152	-53.514	1.00	16.79	O
ANISOU	2934	O	ASP	B	4	2001	2472	1906	111	-103	O
ATOM	2935	CB	ASP	B	4	-28.217	-10.426	-53.971	1.00	19.16	C
ANISOU	2935	CB	ASP	B	4	2352	2666	2263	147	-238	C
ATOM	2936	CG	ASP	B	4	-26.711	-10.198	-53.916	1.00	20.93	C
ANISOU	2936	CG	ASP	B	4	2520	2822	2608	69	-223	C
ATOM	2937	OD1	ASP	B	4	-26.007	-10.897	-53.174	1.00	19.96	O
ANISOU	2937	OD1	ASP	B	4	2356	2679	2548	8	-212	O
ATOM	2938	OD2	ASP	B	4	-26.223	-9.308	-54.653	1.00	23.28	O
ANISOU	2938	OD2	ASP	B	4	2806	3094	2946	69	-221	O
ATOM	2939	H	ASP	B	4	-27.785	-10.287	-51.162	1.00	19.18	H
ATOM	2940	HA	ASP	B	4	-29.744	-11.151	-52.810	1.00	20.63	H
ATOM	2941	HB2	ASP	B	4	-28.401	-11.018	-54.717	1.00	22.99	H
ATOM	2942	HB3	ASP	B	4	-28.643	-9.568	-54.117	1.00	22.99	H
ATOM	2943	N	TYR	B	5	-27.953	-12.892	-51.281	1.00	14.29	N
ANISOU	2943	N	TYR	B	5	1721	2012	1696	10	-210	N
ATOM	2944	CA	TYR	B	5	-27.325	-14.185	-51.059	1.00	13.98	C
ANISOU	2944	CA	TYR	B	5	1657	1987	1666	-18	-143	C
ATOM	2945	C	TYR	B	5	-27.919	-14.847	-49.826	1.00	14.11	C
ANISOU	2945	C	TYR	B	5	1716	1981	1664	-55	-155	C
ATOM	2946	O	TYR	B	5	-28.142	-14.190	-48.804	1.00	14.28	O
ANISOU	2946	O	TYR	B	5	1779	1948	1698	-68	-228	O
ATOM	2947	CB	TYR	B	5	-25.805	-14.039	-50.903	1.00	14.37	C
ANISOU	2947	CB	TYR	B	5	1655	1985	1822	-53	-154	C

ATOM 2948	CG TYR B 5	-25.057 -15.347 -51.050	1.00 14.98	C
ANISOU 2948	CG TYR B 5	1696 2098 1898	-35 -68 116	C
ATOM 2949	CD1 TYR B 5	-24.778 -15.875 -52.305	1.00 16.02	C
ANISOU 2949	CD1 TYR B 5	1796 2317 1974	42 36 151	C
ATOM 2950	CD2 TYR B 5	-24.640 -16.058 -49.934	1.00 14.40	C
ANISOU 2950	CD2 TYR B 5	1639 1970 1863	-71 -94 95	C
ATOM 2951	CE1 TYR B 5	-24.096 -17.076 -52.438	1.00 17.69	C
ANISOU 2951	CE1 TYR B 5	1994 2550 2177	90 111 153	C
ATOM 2952	CE2 TYR B 5	-23.960 -17.255 -50.059	1.00 15.02	C
ANISOU 2952	CE2 TYR B 5	1698 2065 1943	-33 -24 112	C
ATOM 2953	CZ TYR B 5	-23.696 -17.761 -51.313	1.00 16.82	C
ANISOU 2953	CZ TYR B 5	1896 2370 2123	51 78 135	C
ATOM 2954	OH TYR B 5	-23.017 -18.950 -51.446	1.00 18.22	O
ANISOU 2954	OH TYR B 5	2073 2555 2296	119 145 139	O
ATOM 2955	H TYR B 5	-28.138 -12.460 -50.561	1.00 17.14	H
ATOM 2956	HA TYR B 5	-27.497 -14.758 -51.823	1.00 16.77	H
ATOM 2957	HB2 TYR B 5	-25.476 -13.430 -51.583	1.00 17.25	H
ATOM 2958	HB3 TYR B 5	-25.612 -13.683 -50.021	1.00 17.25	H
ATOM 2959	HD1 TYR B 5	-25.050 -15.415 -53.066	1.00 19.23	H
ATOM 2960	HD2 TYR B 5	-24.820 -15.722 -49.086	1.00 17.28	H
ATOM 2961	HE1 TYR B 5	-23.914 -17.419 -53.283	1.00 21.23	H
ATOM 2962	HE2 TYR B 5	-23.687 -17.719 -49.300	1.00 18.02	H
ATOM 2963	HH TYR B 5	-22.833 -19.262 -50.688	1.00 21.87	H
ATOM 2964	N TRP B 6	-28.188 -16.151 -49.944	1.00 14.40	N
ANISOU 2964	N TRP B 6	1754 2053 1663	-63 -83 -223	N
ATOM 2965	CA TRP B 6	-28.712 -16.978 -48.863	1.00 15.59	C
ANISOU 2965	CA TRP B 6	1941 2184 1799	-110 -68 -293	C
ATOM 2966	C TRP B 6	-27.700 -18.084 -48.608	1.00 15.39	C
ANISOU 2966	C TRP B 6	1932 2106 1810	-125 -34 -245	C
ATOM 2967	O TRP B 6	-27.475 -18.939 -49.473	1.00 14.47	O
ANISOU 2967	O TRP B 6	1812 2003 1683	-99 21 -255	O
ATOM 2968	CB TRP B 6	-30.081 -17.556 -49.220	1.00 15.36	C
ANISOU 2968	CB TRP B 6	1896 2222 1716	-126 -29 -403	C
ATOM 2969	CG TRP B 6	-30.571 -18.628 -48.282	1.00 15.38	C
ANISOU 2969	CG TRP B 6	1922 2203 1718	-195 13 -442	C
ATOM 2970	CD1 TRP B 6	-30.973 -19.884 -48.619	1.00 16.03	C
ANISOU 2970	CD1 TRP B 6	2008 2274 1807	-248 55 -490	C
ATOM 2971	CD2 TRP B 6	-30.717 -18.531 -46.855	1.00 16.22	C
ANISOU 2971	CD2 TRP B 6	2064 2287 1811	-218 16 -426	C
ATOM 2972	NE1 TRP B 6	-31.356 -20.578 -47.495	1.00 17.28	N
ANISOU 2972	NE1 TRP B 6	2192 2400 1975	-319 93 -483	N
ATOM 2973	CE2 TRP B 6	-31.206 -19.772 -46.400	1.00 17.38	C
ANISOU 2973	CE2 TRP B 6	2224 2420 1960	-291 80 -441	C
ATOM 2974	CE3 TRP B 6	-30.472 -17.521 -45.921	1.00 16.82	C
ANISOU 2974	CE3 TRP B 6	2178 2346 1866	-177 -38 -402	C
ATOM 2975	CZ2 TRP B 6	-31.468 -20.025 -45.051	1.00 18.45	C
ANISOU 2975	CZ2 TRP B 6	2401 2547 2062	-318 116 -411	C
ATOM 2976	CZ3 TRP B 6	-30.728 -17.776 -44.584	1.00 18.02	C
ANISOU 2976	CZ3 TRP B 6	2385 2493 1969	-186 -17 -400	C
ATOM 2977	CH2 TRP B 6	-31.222 -19.016 -44.164	1.00 18.40	C
ANISOU 2977	CH2 TRP B 6	2436 2550 2006	-252 72 -394	C
ATOM 2978	H TRP B 6	-28.067 -16.591 -50.673	1.00 17.28	H
ATOM 2979	HA TRP B 6	-28.801 -16.445 -48.058	1.00 18.71	H

ATOM	2980	HB2 TRP B	6	-30.733	-16.838	-49.212	1.00	18.43	H	
ATOM	2981	HB3 TRP B	6	-30.033	-17.942	-50.109	1.00	18.43	H	
ATOM	2982	HD1 TRP B	6	-30.986	-20.224	-49.484	1.00	19.23	H	
ATOM	2983	HE1 TRP B	6	-31.644	-21.388	-47.483	1.00	20.74	H	
ATOM	2984	HE3 TRP B	6	-30.148	-16.693	-46.193	1.00	20.18	H	
ATOM	2985	HZ2 TRP B	6	-31.791	-20.850	-44.767	1.00	22.14	H	
ATOM	2986	HZ3 TRP B	6	-30.573	-17.109	-43.954	1.00	21.62	H	
ATOM	2987	HH2 TRP B	6	-31.382	-19.159	-43.259	1.00	22.08	H	
ATOM	2988	N LEU B	7	-27.076	-18.046	-47.437	1.00	14.52	N	
ANISOU	2988	N LEU B	7	1851	1933	1731	-147	-77	-199	N
ATOM	2989	CA LEU B	7	-26.074	-19.030	-47.055	1.00	13.38	C	
ANISOU	2989	CA LEU B	7	1723	1738	1623	-143	-62	-143	C
ATOM	2990	C LEU B	7	-26.693	-20.011	-46.070	1.00	12.79	C	
ANISOU	2990	C LEU B	7	1726	1628	1507	-181	-32	-189	C
ATOM	2991	O LEU B	7	-27.245	-19.604	-45.043	1.00	12.29	O	
ANISOU	2991	O LEU B	7	1703	1566	1400	-203	-59	-209	O
ATOM	2992	CB LEU B	7	-24.854	-18.354	-46.438	1.00	14.56	C	
ANISOU	2992	CB LEU B	7	1843	1845	1843	-140	-153	-45	C
ATOM	2993	CG LEU B	7	-23.756	-19.259	-45.867	1.00	15.37	C	
ANISOU	2993	CG LEU B	7	1948	1904	1988	-119	-164	22	C
ATOM	2994	CD1 LEU B	7	-23.104	-20.102	-46.952	1.00	16.37	C	
ANISOU	2994	CD1 LEU B	7	2020	2059	2140	-55	-76	61	C
ATOM	2995	CD2 LEU B	7	-22.729	-18.407	-45.145	1.00	16.68	C	
ANISOU	2995	CD2 LEU B	7	2072	2035	2231	-135	-296	105	C
ATOM	2996	H LEU B	7	-27.218	-17.448	-46.835	1.00	17.42	H	
ATOM	2997	HA LEU B	7	-25.788	-19.522	-47.841	1.00	16.06	H	
ATOM	2998	HB2 LEU B	7	-24.440	-17.801	-47.119	1.00	17.47	H	
ATOM	2999	HB3 LEU B	7	-25.160	-17.788	-45.712	1.00	17.47	H	
ATOM	3000	HG LEU B	7	-24.151	-19.862	-45.219	1.00	18.44	H	
ATOM	3001	HD11 LEU B	7	-22.418	-20.658	-46.550	1.00	19.64	H	
ATOM	3002	HD12 LEU B	7	-23.781	-20.660	-47.367	1.00	19.64	H	
ATOM	3003	HD13 LEU B	7	-22.708	-19.514	-47.613	1.00	19.64	H	
ATOM	3004	HD21 LEU B	7	-22.036	-18.984	-44.786	1.00	20.02	H	
ATOM	3005	HD22 LEU B	7	-22.342	-17.778	-45.775	1.00	20.02	H	
ATOM	3006	HD23 LEU B	7	-23.167	-17.928	-44.425	1.00	20.02	H	
ATOM	3007	N ASN B	8	-26.592	-21.298	-46.385	1.00	12.85	N	
ANISOU	3007	N ASN B	8	1764	1597	1520	-181	27	-199	N
ATOM	3008	CA ASN B	8	-27.162	-22.334	-45.526	1.00	15.06	C	
ANISOU	3008	CA ASN B	8	2123	1822	1777	-234	63	-215	C
ATOM	3009	C ASN B	8	-26.221	-23.533	-45.623	1.00	16.02	C	
ANISOU	3009	C ASN B	8	2297	1854	1935	-191	79	-173	C
ATOM	3010	O ASN B	8	-26.341	-24.356	-46.532	1.00	17.13	O	
ANISOU	3010	O ASN B	8	2460	1961	2088	-177	117	-222	O
ATOM	3011	CB ASN B	8	-28.583	-22.670	-45.948	1.00	16.03	C	
ANISOU	3011	CB ASN B	8	2234	1978	1879	-305	113	-302	C
ATOM	3012	CG ASN B	8	-29.255	-23.637	-45.005	1.00	18.02	C	
ANISOU	3012	CG ASN B	8	2546	2178	2123	-388	161	-287	C
ATOM	3013	OD1 ASN B	8	-28.683	-24.035	-43.999	1.00	18.30	O	
ANISOU	3013	OD1 ASN B	8	2654	2152	2146	-377	161	-212	O
ATOM	3014	ND2 ASN B	8	-30.485	-24.006	-45.320	1.00	20.51	N	
ANISOU	3014	ND2 ASN B	8	2823	2522	2450	-475	199	-346	N
ATOM	3015	H ASN B	8	-26.199	-21.599	-47.088	1.00	15.42	H	
ATOM	3016	HA ASN B	8	-27.176	-22.024	-44.607	1.00	18.07	H	

ATOM	3017	HB2 ASN B	8	-29.109	-21.855	-45.967	1.00	19.24	H
ATOM	3018	HB3 ASN B	8	-28.565	-23.074	-46.830	1.00	19.24	H
ATOM	3019	HD21 ASN B	8	-30.911	-24.556	-44.814	1.00	24.62	H
ATOM	3020	HD22 ASN B	8	-30.858	-23.697	-46.030	1.00	24.62	H
ATOM	3021	N PHE B	9	-25.258	-23.589	-44.703	1.00	16.34	N
ANISOU	3021	N PHE B	9	2365	1854	1989	-153	34	-89
ATOM	3022	CA PHE B	9	-24.222	-24.615	-44.715	1.00	17.12	C
ANISOU	3022	CA PHE B	9	2502	1877	2126	-79	36	-35
ATOM	3023	C PHE B	9	-24.148	-25.327	-43.372	1.00	16.93	C
ANISOU	3023	C PHE B	9	2587	1771	2075	-92	17	23
ATOM	3024	O PHE B	9	-24.212	-24.693	-42.318	1.00	14.81	O
ANISOU	3024	O PHE B	9	2336	1531	1761	-113	-35	55
ATOM	3025	CB PHE B	9	-22.837	-24.041	-45.012	1.00	18.07	C
ANISOU	3025	CB PHE B	9	2518	2043	2303	9	-13	42
ATOM	3026	CG PHE B	9	-21.734	-25.037	-44.799	1.00	19.58	C
ANISOU	3026	CG PHE B	9	2732	2173	2532	110	-19	109
ATOM	3027	CD1 PHE B	9	-21.435	-25.958	-45.781	1.00	20.19	C
ANISOU	3027	CD1 PHE B	9	2829	2223	2621	204	52	83
ATOM	3028	CD2 PHE B	9	-21.025	-25.083	-43.601	1.00	21.05	C
ANISOU	3028	CD2 PHE B	9	2939	2329	2730	131	-106	189
ATOM	3029	CE1 PHE B	9	-20.444	-26.896	-45.596	1.00	22.03	C
ANISOU	3029	CE1 PHE B	9	3089	2395	2884	327	48	139
ATOM	3030	CE2 PHE B	9	-20.025	-26.036	-43.408	1.00	23.00	C
ANISOU	3030	CE2 PHE B	9	3204	2523	3012	244	-119	255
ATOM	3031	CZ PHE B	9	-19.740	-26.938	-44.412	1.00	23.46	C
ANISOU	3031	CZ PHE B	9	3273	2552	3090	346	-36	231
ATOM	3032	H PHE B	9	-25.184	-23.033	-44.051	1.00	19.61	H
ATOM	3033	HA PHE B	9	-24.432	-25.272	-45.396	1.00	20.54	H
ATOM	3034	HB2 PHE B	9	-22.807	-23.754	-45.939	1.00	21.68	H
ATOM	3035	HB3 PHE B	9	-22.676	-23.285	-44.426	1.00	21.68	H
ATOM	3036	HD1 PHE B	9	-21.906	-25.942	-46.583	1.00	24.23	H
ATOM	3037	HD2 PHE B	9	-21.222	-24.476	-42.925	1.00	25.26	H
ATOM	3038	HE1 PHE B	9	-20.251	-27.505	-46.271	1.00	26.43	H
ATOM	3039	HE2 PHE B	9	-19.548	-26.058	-42.610	1.00	27.60	H
ATOM	3040	HZ PHE B	9	-19.068	-27.570	-44.293	1.00	28.16	H
ATOM	3041	N THR B	10	-23.980	-26.646	-43.424	1.00	18.36	N
ANISOU	3041	N THR B	10	2861	1842	2275	-64	52	36
ATOM	3042	CA THR B	10	-23.649	-27.438	-42.247	1.00	20.04	C
ANISOU	3042	CA THR B	10	3188	1961	2465	-45	31	121
ATOM	3043	C THR B	10	-22.704	-28.549	-42.670	1.00	20.61	C
ANISOU	3043	C THR B	10	3312	1928	2590	71	30	148
ATOM	3044	O THR B	10	-22.837	-29.084	-43.772	1.00	20.35	O
ANISOU	3044	O THR B	10	3289	1854	2590	98	75	75
ATOM	3045	CB THR B	10	-24.897	-28.043	-41.601	1.00	22.36	C
ANISOU	3045	CB THR B	10	3587	2195	2715	-165	95	124
ATOM	3046	OG1 THR B	10	-24.513	-28.854	-40.486	1.00	24.69	O
ANISOU	3046	OG1 THR B	10	4011	2393	2977	-134	82	231
ATOM	3047	CG2 THR B	10	-25.648	-28.903	-42.602	1.00	22.88	C
ANISOU	3047	CG2 THR B	10	3681	2177	2837	-233	154	47
ATOM	3048	H THR B	10	-24.053	-27.112	-44.143	1.00	22.04	H
ATOM	3049	HA THR B	10	-23.200	-26.879	-41.593	1.00	24.04	H
ATOM	3050	HB THR B	10	-25.485	-27.333	-41.300	1.00	26.84	H
ATOM	3051	HG1 THR B	10	-25.194	-29.190	-40.127	1.00	29.63	H

ATOM 3052	HG21 THR B 10	-26.437 -29.283 -42.185	1.00 27.46	H
ATOM 3053	HG22 THR B 10	-25.920 -28.365 -43.362	1.00 27.46	H
ATOM 3054	HG23 THR B 10	-25.077 -29.623 -42.913	1.00 27.46	H
ATOM 3055	N ASP B 11	-21.742 -28.896 -41.807	1.00 21.08	N
ANISOU 3055	N ASP B 11	3413 1948 2648	163 -32 245	N
ATOM 3056	CA ASP B 11	-20.913 -30.060 -42.110	1.00 23.23	C
ANISOU 3056	CA ASP B 11	3753 2107 2965	298 -30 274	C
ATOM 3057	C ASP B 11	-21.647 -31.375 -41.871	1.00 24.96	C
ANISOU 3057	C ASP B 11	4168 2138 3178	247 16 273	C
ATOM 3058	O ASP B 11	-21.050 -32.443 -42.047	1.00 26.18	O
ANISOU 3058	O ASP B 11	4422 2157 3366	366 9 292	O
ATOM 3059	CB ASP B 11	-19.604 -30.027 -41.303	1.00 24.17	C
ANISOU 3059	CB ASP B 11	3836 2250 3096	429 -126 385	C
ATOM 3060	CG ASP B 11	-19.813 -30.207 -39.809	1.00 24.80	C
ANISOU 3060	CG ASP B 11	4044 2280 3098	391 -183 468	C
ATOM 3061	OD1 ASP B 11	-20.948 -30.481 -39.375	1.00 24.69	O
ANISOU 3061	OD1 ASP B 11	4149 2208 3025	269 -121 461	O
ATOM 3062	OD2 ASP B 11	-18.818 -30.084 -39.065	1.00 25.41	O
ANISOU 3062	OD2 ASP B 11	4096 2387 3170	490 -291 551	O
ATOM 3063	H ASP B 11	-21.557 -28.492 -41.071	1.00 25.29	H
ATOM 3064	HA ASP B 11	-20.675 -30.029 -43.049	1.00 27.87	H
ATOM 3065	HB2 ASP B 11	-19.027 -30.743 -41.611	1.00 29.00	H
ATOM 3066	HB3 ASP B 11	-19.171 -29.170 -41.442	1.00 29.00	H
ATOM 3067	N GLY B 12	-22.923 -31.328 -41.488	1.00 25.27	N
ANISOU 3067	N GLY B 12	4258 2159 3184	75 62 258	N
ATOM 3068	CA GLY B 12	-23.712 -32.521 -41.286	1.00 26.45	C
ANISOU 3068	CA GLY B 12	4569 2125 3354	-18 106 277	C
ATOM 3069	C GLY B 12	-23.890 -32.935 -39.840	1.00 27.29	C
ANISOU 3069	C GLY B 12	4798 2169 3401	-60 113 422	C
ATOM 3070	O GLY B 12	-24.656 -33.868 -39.573	1.00 29.18	O
ANISOU 3070	O GLY B 12	5164 2258 3666	-172 162 470	O
ATOM 3071	H GLY B 12	-23.354 -30.599 -41.338	1.00 30.32	H
ATOM 3072	HA2 GLY B 12	-24.593 -32.383 -41.667	1.00 31.74	H
ATOM 3073	HA3 GLY B 12	-23.294 -33.258 -41.758	1.00 31.74	H
ATOM 3074	N GLY B 13	-23.211 -32.274 -38.904	1.00 25.91	N
ANISOU 3074	N GLY B 13	4595 2101 3147	24 57 499	N
ATOM 3075	CA GLY B 13	-23.345 -32.620 -37.498	1.00 26.72	C
ANISOU 3075	CA GLY B 13	4833 2166 3154	14 60 640	C
ATOM 3076	C GLY B 13	-24.644 -32.088 -36.921	1.00 27.11	C
ANISOU 3076	C GLY B 13	4865 2314 3122	-141 151 656	C
ATOM 3077	O GLY B 13	-25.017 -30.934 -37.158	1.00 24.47	O
ANISOU 3077	O GLY B 13	4396 2143 2760	-175 154 568	O
ATOM 3078	H GLY B 13	-22.669 -31.625 -39.059	1.00 31.09	H
ATOM 3079	HA2 GLY B 13	-23.331 -33.584 -37.396	1.00 32.07	H
ATOM 3080	HA3 GLY B 13	-22.605 -32.243 -36.997	1.00 32.07	H
ATOM 3081	N GLY B 14	-25.342 -32.937 -36.173	1.00 31.03	N
ANISOU 3081	N GLY B 14	5497 2711 3584	-229 234 779	N
ATOM 3082	CA GLY B 14	-26.527 -32.518 -35.449	1.00 32.00	C
ANISOU 3082	CA GLY B 14	5599 2948 3610	-350 345 833	C
ATOM 3083	C GLY B 14	-27.618 -32.006 -36.372	1.00 29.52	C
ANISOU 3083	C GLY B 14	5121 2722 3374	-494 413 711	C
ATOM 3084	O GLY B 14	-27.803 -32.483 -37.498	1.00 30.71	O
ANISOU 3084	O GLY B 14	5232 2772 3664	-563 403 622	O

ATOM	3085	H	GLY B 14	-25.145	-33.768	-36.070	1.00	37.24	H
ATOM	3086	HA2	GLY B 14	-26.878	-33.268	-34.943	1.00	38.40	H
ATOM	3087	HA3	GLY B 14	-26.292	-31.811	-34.828	1.00	38.40	H
ATOM	3088	N	ILE B 15	-28.343	-30.997	-35.887	1.00	25.58	N
ANISOU	3088	N	ILE B 15	4534	2417	2770	-518	470 697	N
ATOM	3089	CA	ILE B 15	-29.510	-30.439	-36.561	1.00	24.01	C
ANISOU	3089	CA	ILE B 15	4171	2332	2621	-640	542 603	C
ATOM	3090	C	ILE B 15	-29.281	-28.950	-36.788	1.00	21.93	C
ANISOU	3090	C	ILE B 15	3798	2242	2294	-538	474 476	C
ATOM	3091	O	ILE B 15	-28.949	-28.226	-35.844	1.00	21.95	O
ANISOU	3091	O	ILE B 15	3848	2340	2153	-430	444 502	O
ATOM	3092	CB	ILE B 15	-30.788	-30.640	-35.725	1.00	25.80	C
ANISOU	3092	CB	ILE B 15	4381	2637	2785	-759	702 725	C
ATOM	3093	CG1	ILE B 15	-31.014	-32.120	-35.363	1.00	29.38	C
ANISOU	3093	CG1	ILE B 15	4957	2896	3308	-881	772 892	C
ATOM	3094	CG2	ILE B 15	-31.991	-30.018	-36.451	1.00	25.22	C
ANISOU	3094	CG2	ILE B 15	4104	2703	2774	-868	763 624	C
ATOM	3095	CD1	ILE B 15	-31.595	-32.964	-36.478	1.00	30.74	C
ANISOU	3095	CD1	ILE B 15	5074	2914	3692	-1062	765 839	C
ATOM	3096	H	ILE B 15	-28.168	-30.607	-35.141	1.00	30.70	H
ATOM	3097	HA	ILE B 15	-29.630	-30.871	-37.422	1.00	28.82	H
ATOM	3098	HB	ILE B 15	-30.669	-30.154	-34.894	1.00	30.96	H
ATOM	3099	HG12	ILE B 15	-30.162	-32.510	-35.113	1.00	35.25	H
ATOM	3100	HG13	ILE B 15	-31.626	-32.164	-34.612	1.00	35.25	H
ATOM	3101	HG21	ILE B 15	-32.787	-30.151	-35.914	1.00	30.26	H
ATOM	3102	HG22	ILE B 15	-31.829	-29.069	-36.574	1.00	30.26	H
ATOM	3103	HG23	ILE B 15	-32.097	-30.450	-37.313	1.00	30.26	H
ATOM	3104	HD11	ILE B 15	-31.701	-33.874	-36.162	1.00	36.89	H
ATOM	3105	HD12	ILE B 15	-32.456	-32.599	-36.734	1.00	36.89	H
ATOM	3106	HD13	ILE B 15	-30.989	-32.945	-37.236	1.00	36.89	H
ATOM	3107	N	VAL B 16	-29.498	-28.481	-38.021	1.00	20.61	N
ANISOU	3107	N	VAL B 16	3498	2109	2225	-572	443 340	N
ATOM	3108	CA	VAL B 16	-29.472	-27.049	-38.336	1.00	19.62	C
ANISOU	3108	CA	VAL B 16	3265	2133	2058	-501	388 231	C
ATOM	3109	C	VAL B 16	-30.699	-26.762	-39.191	1.00	20.43	C
ANISOU	3109	C	VAL B 16	3222	2317	2221	-604	450 145	C
ATOM	3110	O	VAL B 16	-30.690	-26.994	-40.406	1.00	19.68	O
ANISOU	3110	O	VAL B 16	3070	2173	2234	-644	413 62	O
ATOM	3111	CB	VAL B 16	-28.187	-26.615	-39.047	1.00	18.05	C
ANISOU	3111	CB	VAL B 16	3048	1898	1912	-399	260 168	C
ATOM	3112	CG1	VAL B 16	-28.252	-25.124	-39.421	1.00	16.59	C
ANISOU	3112	CG1	VAL B 16	2757	1842	1704	-352	204 73	C
ATOM	3113	CG2	VAL B 16	-26.987	-26.876	-38.167	1.00	18.72	C
ANISOU	3113	CG2	VAL B 16	3246	1920	1948	-294	180 255	C
ATOM	3114	H	VAL B 16	-29.666	-28.980	-38.701	1.00	24.74	H
ATOM	3115	HA	VAL B 16	-29.549	-26.540	-37.514	1.00	23.55	H
ATOM	3116	HB	VAL B 16	-28.084	-27.129	-39.863	1.00	21.66	H
ATOM	3117	HG11	VAL B 16	-27.429	-24.875	-39.869	1.00	19.91	H
ATOM	3118	HG12	VAL B 16	-29.008	-24.980	-40.012	1.00	19.91	H
ATOM	3119	HG13	VAL B 16	-28.361	-24.600	-38.612	1.00	19.91	H
ATOM	3120	HG21	VAL B 16	-26.185	-26.595	-38.635	1.00	22.47	H
ATOM	3121	HG22	VAL B 16	-27.083	-26.371	-37.344	1.00	22.47	H
ATOM	3122	HG23	VAL B 16	-26.940	-27.824	-37.970	1.00	22.47	H

ATOM 3123 N ASN B 17	-31.754 -26.243 -38.563 1.00 22.49	N
ANISOU 3123 N ASN B 17	3423 2718 2402 -628 539 164	N
ATOM 3124 CA ASN B 17	-33.009 -25.913 -39.240 1.00 24.88	C
ANISOU 3124 CA ASN B 17	3563 3131 2759 -714 596 95	C
ATOM 3125 C ASN B 17	-32.998 -24.427 -39.571 1.00 21.88	C
ANISOU 3125 C ASN B 17	3112 2878 2325 -598 532 -17	C
ATOM 3126 O ASN B 17	-33.201 -23.583 -38.697 1.00 20.40	O
ANISOU 3126 O ASN B 17	2943 2798 2010 -501 555 -10	O
ATOM 3127 CB ASN B 17	-34.207 -26.270 -38.367 1.00 32.14	C
ANISOU 3127 CB ASN B 17	4431 4145 3635 -800 750 201	C
ATOM 3128 CG ASN B 17	-35.516 -25.827 -38.982 1.00 37.98	C
ANISOU 3128 CG ASN B 17	4967 5032 4432 -871 802 135	C
ATOM 3129 OD1 ASN B 17	-35.697 -25.908 -40.198 1.00 39.72	O
ANISOU 3129 OD1 ASN B 17	5102 5216 4773 -935 727 34	O
ATOM 3130 ND2 ASN B 17	-36.427 -25.328 -38.154 1.00 41.10	N
ANISOU 3130 ND2 ASN B 17	5282 5607 4726 -836 926 188	N
ATOM 3131 H ASN B 17	-31.767 -26.068 -37.721 1.00 26.98	H
ATOM 3132 HA ASN B 17	-33.072 -26.414 -40.068 1.00 29.86	H
ATOM 3133 HB2 ASN B 17	-34.239 -27.232 -38.249 1.00 38.57	H
ATOM 3134 HB3 ASN B 17	-34.114 -25.832 -37.506 1.00 38.57	H
ATOM 3135 HD21 ASN B 17	-37.187 -25.063 -38.458 1.00 49.32	H
ATOM 3136 HD22 ASN B 17	-36.257 -25.269 -37.313 1.00 49.32	H
ATOM 3137 N ALA B 18	-32.760 -24.110 -40.837 1.00 20.61	N
ANISOU 3137 N ALA B 18	2887 2696 2250 -595 449 -117	N
ATOM 3138 CA ALA B 18	-32.645 -22.733 -41.295 1.00 20.20	C
ANISOU 3138 CA ALA B 18	2780 2728 2166 -493 376 -206	C
ATOM 3139 C ALA B 18	-33.821 -22.394 -42.200 1.00 20.53	C
ANISOU 3139 C ALA B 18	2672 2874 2253 -537 398 -286	C
ATOM 3140 O ALA B 18	-34.208 -23.198 -43.057 1.00 20.53	O
ANISOU 3140 O ALA B 18	2617 2836 2346 -639 401 -313	O
ATOM 3141 CB ALA B 18	-31.331 -22.512 -42.049 1.00 18.02	C
ANISOU 3141 CB ALA B 18	2545 2361 1941 -436 265 -230	C
ATOM 3142 H ALA B 18	-32.660 -24.689 -41.465 1.00 24.74	H
ATOM 3143 HA ALA B 18	-32.663 -22.136 -40.530 1.00 24.24	H
ATOM 3144 HB1 ALA B 18	-31.285 -21.588 -42.340 1.00 21.62	H
ATOM 3145 HB2 ALA B 18	-30.589 -22.710 -41.456 1.00 21.62	H
ATOM 3146 HB3 ALA B 18	-31.306 -23.103 -42.819 1.00 21.62	H
ATOM 3147 N VAL B 19	-34.366 -21.191 -42.028 1.00 18.43	N
ANISOU 3147 N VAL B 19	2351 2732 1921 -446 394 -334	N
ATOM 3148 CA VAL B 19	-35.515 -20.727 -42.799 1.00 18.06	C
ANISOU 3148 CA VAL B 19	2151 2806 1903 -455 404 -407	C
ATOM 3149 C VAL B 19	-35.092 -19.490 -43.583 1.00 16.65	C
ANISOU 3149 C VAL B 19	1978 2633 1715 -342 296 -480	C
ATOM 3150 O VAL B 19	-34.642 -18.500 -42.993 1.00 16.07	O
ANISOU 3150 O VAL B 19	1981 2553 1572 -230 251 -483	O
ATOM 3151 CB VAL B 19	-36.720 -20.426 -41.893 1.00 20.37	C
ANISOU 3151 CB VAL B 19	2356 3258 2125 -427 517 -383	C
ATOM 3152 CG1 VAL B 19	-37.906 -19.915 -42.707 1.00 21.04	C
ANISOU 3152 CG1 VAL B 19	2258 3485 2251 -419 514 -457	C
ATOM 3153 CG2 VAL B 19	-37.107 -21.676 -41.099 1.00 21.31	C
ANISOU 3153 CG2 VAL B 19	2467 3370 2260 -556 641 -271	C
ATOM 3154 H VAL B 19	-34.081 -20.614 -41.457 1.00 22.12	H
ATOM 3155 HA VAL B 19	-35.775 -21.414 -43.432 1.00 21.67	H

ATOM 3156 HB VAL B 19	-36.472 -19.734 -41.260 1.00 24.44	H
ATOM 3157 HG11 VAL B 19	-38.647 -19.735 -42.107 1.00 25.25	H
ATOM 3158 HG12 VAL B 19	-37.647 -19.100 -43.166 1.00 25.25	H
ATOM 3159 HG13 VAL B 19	-38.160 -20.592 -43.353 1.00 25.25	H
ATOM 3160 HG21 VAL B 19	-37.868 -21.467 -40.534 1.00 25.57	H
ATOM 3161 HG22 VAL B 19	-37.340 -22.384 -41.719 1.00 25.57	H
ATOM 3162 HG23 VAL B 19	-36.354 -21.948 -40.552 1.00 25.57	H
ATOM 3163 N ASN B 20	-35.219 -19.558 -44.908 1.00 15.88	N
ANISOU 3163 N ASN B 20	1815 2535 1684 -371 244 -535	N
ATOM 3164 CA ASN B 20	-34.982 -18.414 -45.789 1.00 14.94	C
ANISOU 3164 CA ASN B 20	1689 2432 1556 -271 155 -583	C
ATOM 3165 C ASN B 20	-36.238 -17.553 -45.753 1.00 15.61	C
ANISOU 3165 C ASN B 20	1668 2660 1602 -199 166 -635	C
ATOM 3166 O ASN B 20	-37.228 -17.849 -46.418 1.00 15.70	O
ANISOU 3166 O ASN B 20	1552 2763 1649 -242 174 -680	O
ATOM 3167 CB ASN B 20	-34.656 -18.882 -47.204 1.00 16.28	C
ANISOU 3167 CB ASN B 20	1844 2564 1777 -305 107 -613	C
ATOM 3168 CG ASN B 20	-34.533 -17.740 -48.193 1.00 16.17	C
ANISOU 3168 CG ASN B 20	1818 2583 1741 -203 33 -638	C
ATOM 3169 OD1 ASN B 20	-34.821 -16.587 -47.885 1.00 16.28	O
ANISOU 3169 OD1 ASN B 20	1828 2638 1721 -116 5 -643	O
ATOM 3170 ND2 ASN B 20	-34.103 -18.071 -49.406 1.00 17.47	N
ANISOU 3170 ND2 ASN B 20	1995 2727 1918 -201 1 -651	N
ATOM 3171 H ASN B 20	-35.447 -20.272 -45.330 1.00 19.06	H
ATOM 3172 HA ASN B 20	-34.236 -17.891 -45.454 1.00 17.93	H
ATOM 3173 HB2 ASN B 20	-33.811 -19.359 -47.191 1.00 19.53	H
ATOM 3174 HB3 ASN B 20	-35.363 -19.470 -47.512 1.00 19.53	H
ATOM 3175 HD21 ASN B 20	-34.013 -17.466 -50.011 1.00 20.97	H
ATOM 3176 HD22 ASN B 20	-33.915 -18.891 -49.587 1.00 20.97	H
ATOM 3177 N GLY B 21	-36.210 -16.484 -44.960 1.00 16.15	N
ANISOU 3177 N GLY B 21	1658 2341 2139 -752 199 -283	N
ATOM 3178 CA GLY B 21	-37.388 -15.682 -44.710 1.00 16.71	C
ANISOU 3178 CA GLY B 21	1621 2501 2229 -740 204 -301	C
ATOM 3179 C GLY B 21	-37.606 -14.611 -45.765 1.00 16.88	C
ANISOU 3179 C GLY B 21	1572 2599 2242 -668 126 -312	C
ATOM 3180 O GLY B 21	-36.911 -14.529 -46.780 1.00 16.58	O
ANISOU 3180 O GLY B 21	1567 2556 2178 -638 68 -308	O
ATOM 3181 H GLY B 21	-35.506 -16.205 -44.552 1.00 19.38	H
ATOM 3182 HA2 GLY B 21	-38.170 -16.255 -44.690 1.00 20.06	H
ATOM 3183 HA3 GLY B 21	-37.304 -15.248 -43.846 1.00 20.06	H
ATOM 3184 N SER B 22	-38.593 -13.766 -45.503 1.00 19.97	N
ANISOU 3184 N SER B 22	1866 3065 2657 -635 127 -321	N
ATOM 3185 CA SER B 22	-38.921 -12.689 -46.428 1.00 21.52	C
ANISOU 3185 CA SER B 22	1991 3333 2852 -555 52 -320	C
ATOM 3186 C SER B 22	-37.809 -11.646 -46.460 1.00 20.76	C
ANISOU 3186 C SER B 22	1970 3188 2730 -459 26 -266	C
ATOM 3187 O SER B 22	-37.299 -11.231 -45.415 1.00 19.25	O
ANISOU 3187 O SER B 22	1831 2943 2539 -431 72 -241	O
ATOM 3188 CB SER B 22	-40.241 -12.042 -46.026 1.00 24.38	C
ANISOU 3188 CB SER B 22	2228 3779 3257 -533 67 -343	C
ATOM 3189 OG SER B 22	-40.552 -10.981 -46.902 1.00 27.03	O
ANISOU 3189 OG SER B 22	2498 4176 3595 -443 -9 -331	O
ATOM 3190 H SER B 22	-39.087 -13.793 -44.799 1.00 23.96	H

ATOM 3191	HA	SER B 22	-39.021 -13.055 -47.321	1.00 25.82	H
ATOM 3192	HB2	SER B 22	-40.946 -12.706 -46.069	1.00 29.26	H
ATOM 3193	HB3	SER B 22	-40.163 -11.696 -45.123	1.00 29.26	H
ATOM 3194	HG	SER B 22	-41.280 -10.627 -46.677	1.00 32.43	H
ATOM 3195	N	GLY B 23	-37.441 -11.222 -47.667	1.00 20.20	N
ANISOU 3195	N	GLY B 23	1903 3140 2633 -415 -46 -250		N
ATOM 3196	CA	GLY B 23	-36.446 -10.174 -47.835	1.00 19.73	C
ANISOU 3196	CA	GLY B 23	1904 3036 2555 -331 -71 -197		C
ATOM 3197	C	GLY B 23	-35.092 -10.578 -47.282	1.00 17.99	C
ANISOU 3197	C	GLY B 23	1798 2725 2314 -347 -35 -177		C
ATOM 3198	O	GLY B 23	-34.478 -11.561 -47.723	1.00 17.48	O
ANISOU 3198	O	GLY B 23	1785 2633 2225 -396 -37 -189		O
ATOM 3199	H	GLY B 23	-37.756 -11.528 -48.406	1.00 24.24	H
ATOM 3200	HA2	GLY B 23	-36.345 -9.971 -48.778	1.00 23.67	H
ATOM 3201	HA3	GLY B 23	-36.739 -9.372 -47.376	1.00 23.67	H
ATOM 3202	N	GLY B 24	-34.609 -9.802 -46.312	1.00 17.47	N
ANISOU 3202	N	GLY B 24	1768 2611 2258 -302 -3 -152		N
ATOM 3203	CA	GLY B 24	-33.355 -10.059 -45.639	1.00 16.02	C
ANISOU 3203	CA	GLY B 24	1679 2352 2054 -309 26 -134		C
ATOM 3204	C	GLY B 24	-33.476 -10.836 -44.344	1.00 14.88	C
ANISOU 3204	C	GLY B 24	1561 2182 1911 -359 89 -145		C
ATOM 3205	O	GLY B 24	-32.493 -10.922 -43.598	1.00 14.23	O
ANISOU 3205	O	GLY B 24	1551 2046 1809 -353 109 -125		O
ATOM 3206	H	GLY B 24	-35.011 -9.098 -46.023	1.00 20.96	H
ATOM 3207	HA2	GLY B 24	-32.775 -10.559 -46.234	1.00 19.22	H
ATOM 3208	HA3	GLY B 24	-32.925 -9.213 -45.441	1.00 19.22	H
ATOM 3209	N	ASN B 25	-34.635 -11.426 -44.063	1.00 15.22	N
ANISOU 3209	N	ASN B 25	1545 2264 1972 -411 120 -174		N
ATOM 3210	CA	ASN B 25	-34.880 -12.116 -42.804	1.00 14.68	C
ANISOU 3210	CA	ASN B 25	1500 2177 1901 -463 190 -176		C
ATOM 3211	C	ASN B 25	-34.586 -13.605 -42.929	1.00 14.78	C
ANISOU 3211	C	ASN B 25	1565 2145 1906 -539 207 -175		C
ATOM 3212	O	ASN B 25	-34.800 -14.216 -43.982	1.00 14.79	O
ANISOU 3212	O	ASN B 25	1544 2156 1919 -574 176 -200		O
ATOM 3213	CB	ASN B 25	-36.330 -11.919 -42.357	1.00 16.91	C
ANISOU 3213	CB	ASN B 25	1684 2527 2212 -483 229 -209		C
ATOM 3214	CG	ASN B 25	-36.668 -12.716 -41.104	1.00 18.44	C
ANISOU 3214	CG	ASN B 25	1903 2709 2396 -551 312 -207		C
ATOM 3215	OD1	ASN B 25	-37.347 -13.744 -41.165	1.00 19.86	O
ANISOU 3215	OD1	ASN B 25	2057 2898 2593 -633 343 -224		O
ATOM 3216	ND2	ASN B 25	-36.186 -12.246 -39.961	1.00 17.55	N
ANISOU 3216	ND2	ASN B 25	1841 2575 2251 -520 349 -188		N
ATOM 3217	H	ASN B 25	-35.307 -11.440 -44.598	1.00 18.26	H
ATOM 3218	HA	ASN B 25	-34.299 -11.749 -42.120	1.00 17.62	H
ATOM 3219	HB2	ASN B 25	-36.477 -10.980 -42.164	1.00 20.29	H
ATOM 3220	HB3	ASN B 25	-36.923 -12.210 -43.067	1.00 20.29	H
ATOM 3221	HD21	ASN B 25	-36.348 -12.659 -39.224	1.00 21.06	H
ATOM 3222	HD22	ASN B 25	-35.712 -11.528 -39.956	1.00 21.06	H
ATOM 3223	N	TYR B 26	-34.090 -14.182 -41.835	1.00 14.88	N
ANISOU 3223	N	TYR B 26	1651 2106 1898 -562 255 -147		N
ATOM 3224	CA	TYR B 26	-33.873 -15.615 -41.738	1.00 14.99	C
ANISOU 3224	CA	TYR B 26	1722 2060 1914 -631 284 -136		C
ATOM 3225	C	TYR B 26	-33.923 -16.017 -40.275	1.00 15.42	C

ANISOU 3225	C	TYR B 26	1826	2090	1945	-659	353	-99	C
ATOM 3226	O	TYR B 26	-33.826	-15.176	-39.376	1.00	16.64		O
ANISOU 3226	O	TYR B 26	1984	2272	2068	-617	369	-86	O
ATOM 3227	CB	TYR B 26	-32.534	-16.030	-42.358	1.00	14.37		C
ANISOU 3227	CB	TYR B 26	1719	1916	1824	-603	243	-118	C
ATOM 3228	CG	TYR B 26	-31.303	-15.607	-41.581	1.00	14.05		C
ANISOU 3228	CG	TYR B 26	1750	1841	1749	-542	236	-74	C
ATOM 3229	CD1	TYR B 26	-30.732	-16.445	-40.630	1.00	14.41		C
ANISOU 3229	CD1	TYR B 26	1873	1827	1774	-556	269	-31	C
ATOM 3230	CD2	TYR B 26	-30.706	-14.372	-41.800	1.00	14.23		C
ANISOU 3230	CD2	TYR B 26	1760	1889	1759	-471	195	-73	C
ATOM 3231	CE1	TYR B 26	-29.601	-16.066	-39.924	1.00	14.10		C
ANISOU 3231	CE1	TYR B 26	1888	1770	1698	-499	253	6	C
ATOM 3232	CE2	TYR B 26	-29.574	-13.985	-41.094	1.00	13.99		C
ANISOU 3232	CE2	TYR B 26	1784	1832	1698	-425	186	-43	C
ATOM 3233	CZ	TYR B 26	-29.026	-14.840	-40.160	1.00	14.60		C
ANISOU 3233	CZ	TYR B 26	1930	1866	1752	-438	211	-6	C
ATOM 3234	OH	TYR B 26	-27.899	-14.469	-39.452	1.00	14.80		O
ANISOU 3234	OH	TYR B 26	2001	1880	1743	-391	192	20	O
ATOM 3235	H	TYR B 26	-33.868	-13.752	-41.124	1.00	17.86		H
ATOM 3236	HA	TYR B 26	-34.583	-16.080	-42.207	1.00	17.99		H
ATOM 3237	HB2	TYR B 26	-32.515	-16.997	-42.431	1.00	17.24		H
ATOM 3238	HB3	TYR B 26	-32.470	-15.637	-43.243	1.00	17.24		H
ATOM 3239	HD1	TYR B 26	-31.112	-17.278	-40.468	1.00	17.29		H
ATOM 3240	HD2	TYR B 26	-31.070	-13.795	-42.432	1.00	17.08		H
ATOM 3241	HE1	TYR B 26	-29.232	-16.641	-39.293	1.00	16.91		H
ATOM 3242	HE2	TYR B 26	-29.185	-13.156	-41.254	1.00	16.79		H
ATOM 3243	HH	TYR B 26	-27.650	-13.702	-39.689	1.00	17.76		H
ATOM 3244	N	SER B 27	-34.080	-17.318	-40.042	1.00	16.01		N
ANISOU 3244	N	SER B 27	1942	2110	2030	-733	396	-84	N
ATOM 3245	CA	SER B 27	-34.020	-17.853	-38.693	1.00	15.29		C
ANISOU 3245	CA	SER B 27	1916	1987	1906	-762	462	-32	C
ATOM 3246	C	SER B 27	-33.280	-19.182	-38.728	1.00	16.14		C
ANISOU 3246	C	SER B 27	2119	1990	2022	-791	469	9	C
ATOM 3247	O	SER B 27	-33.176	-19.835	-39.772	1.00	15.27		O
ANISOU 3247	O	SER B 27	2008	1837	1955	-816	443	-21	O
ATOM 3248	CB	SER B 27	-35.424	-18.017	-38.085	1.00	17.60		C
ANISOU 3248	CB	SER B 27	2146	2331	2211	-838	538	-49	C
ATOM 3249	OG	SER B 27	-36.234	-18.879	-38.854	1.00	19.83		O
ANISOU 3249	OG	SER B 27	2382	2602	2551	-923	552	-87	O
ATOM 3250	H	SER B 27	-34.223	-17.908	-40.651	1.00	19.21		H
ATOM 3251	HA	SER B 27	-33.518	-17.243	-38.131	1.00	18.35		H
ATOM 3252	HB2	SER B 27	-35.336	-18.386	-37.192	1.00	21.13		H
ATOM 3253	HB3	SER B 27	-35.848	-17.146	-38.041	1.00	21.13		H
ATOM 3254	HG	SER B 27	-36.993	-18.951	-38.501	1.00	23.80		H
ATOM 3255	N	VAL B 28	-32.751	-19.567	-37.570	1.00	16.52		N
ANISOU 3255	N	VAL B 28	2252	1998	2025	-783	503	78	N
ATOM 3256	CA	VAL B 28	-32.013	-20.812	-37.417	1.00	16.87		C
ANISOU 3256	CA	VAL B 28	2396	1935	2078	-796	513	134	C
ATOM 3257	C	VAL B 28	-32.346	-21.389	-36.050	1.00	17.47		C
ANISOU 3257	C	VAL B 28	2533	1992	2112	-840	588	206	C
ATOM 3258	O	VAL B 28	-32.339	-20.667	-35.047	1.00	17.00		O
ANISOU 3258	O	VAL B 28	2478	1998	1984	-811	603	232	O

ATOM 3259 CB VAL B 28	-30.487 -20.630 -37.531 1.00 16.72	C
ANISOU 3259 CB VAL B 28	2435 1881 2036 -701 446 163	C
ATOM 3260 CG1 VAL B 28	-29.827 -21.983 -37.849 1.00 17.56	C
ANISOU 3260 CG1 VAL B 28	2621 1868 2182 -708 447 195	C
ATOM 3261 CG2 VAL B 28	-30.110 -19.563 -38.561 1.00 18.29	C
ANISOU 3261 CG2 VAL B 28	2569 2133 2245 -643 378 102	C
ATOM 3262 H VAL B 28	-32.808 -19.111 -36.843 1.00 19.82	H
ATOM 3263 HA VAL B 28	-32.299 -21.443 -38.096 1.00 20.24	H
ATOM 3264 HB VAL B 28	-30.148 -20.336 -36.671 1.00 20.06	H
ATOM 3265 HG11 VAL B 28	-28.868 -21.857 -37.918 1.00 21.07	H
ATOM 3266 HG12 VAL B 28	-30.029 -22.607 -37.134 1.00 21.07	H
ATOM 3267 HG13 VAL B 28	-30.180 -22.316 -38.689 1.00 21.07	H
ATOM 3268 HG21 VAL B 28	-29.144 -19.486 -38.596 1.00 21.94	H
ATOM 3269 HG22 VAL B 28	-30.453 -19.829 -39.429 1.00 21.94	H
ATOM 3270 HG23 VAL B 28	-30.501 -18.716 -38.295 1.00 21.94	H
ATOM 3271 N ASN B 29	-32.634 -22.681 -36.015 1.00 19.08	N
ANISOU 3271 N ASN B 29	2789 2106 2356 -914 639 238	N
ATOM 3272 CA ASN B 29	-32.722 -23.458 -34.784 1.00 21.74	C
ANISOU 3272 CA ASN B 29	3202 2403 2656 -932 694 326	C
ATOM 3273 C ASN B 29	-31.761 -24.622 -34.952 1.00 22.28	C
ANISOU 3273 C ASN B 29	3368 2341 2758 -903 672 383	C
ATOM 3274 O ASN B 29	-31.901 -25.401 -35.901 1.00 21.62	O
ANISOU 3274 O ASN B 29	3275 2185 2756 -935 665 340	O
ATOM 3275 CB ASN B 29	-34.143 -23.970 -34.539 1.00 25.57	C
ANISOU 3275 CB ASN B 29	3630 2909 3176 -1015 759 307	C
ATOM 3276 CG ASN B 29	-35.149 -22.851 -34.330 1.00 28.31	C
ANISOU 3276 CG ASN B 29	3872 3386 3499 -1034 784 249	C
ATOM 3277 OD1 ASN B 29	-34.940 -21.951 -33.519 1.00 29.60	O
ANISOU 3277 OD1 ASN B 29	4040 3620 3586 -994 792 268	O
ATOM 3278 ND2 ASN B 29	-36.262 -22.915 -35.057 1.00 29.66	N
ANISOU 3278 ND2 ASN B 29	3945 3590 3735 -1092 795 174	N
ATOM 3279 H ASN B 29	-32.790 -23.150 -36.720 1.00 22.90	H
ATOM 3280 HA ASN B 29	-32.442 -22.920 -34.028 1.00 26.09	H
ATOM 3281 HB2 ASN B 29	-34.428 -24.489 -35.308 1.00 30.68	H
ATOM 3282 HB3 ASN B 29	-34.145 -24.527 -33.745 1.00 30.68	H
ATOM 3283 HD21 ASN B 29	-36.864 -22.306 -34.976 1.00 35.59	H
ATOM 3284 HD22 ASN B 29	-36.379 -23.565 -35.608 1.00 35.59	H
ATOM 3285 N TRP B 30	-30.781 -24.737 -34.055 1.00 22.17	N
ANISOU 3285 N TRP B 30	3442 2300 2680 -837 657 474	N
ATOM 3286 CA TRP B 30	-29.729 -25.727 -34.224 1.00 22.50	C
ANISOU 3286 CA TRP B 30	3571 2222 2756 -786 625 528	C
ATOM 3287 C TRP B 30	-29.474 -26.467 -32.917 1.00 23.08	C
ANISOU 3287 C TRP B 30	3726 2262 2780 -761 647 647	C
ATOM 3288 O TRP B 30	-29.791 -25.979 -31.827 1.00 23.64	O
ANISOU 3288 O TRP B 30	3799 2418 2764 -764 672 688	O
ATOM 3289 CB TRP B 30	-28.438 -25.072 -34.755 1.00 21.68	C
ANISOU 3289 CB TRP B 30	3474 2125 2637 -691 546 511	C
ATOM 3290 CG TRP B 30	-27.686 -24.164 -33.809 1.00 21.75	C
ANISOU 3290 CG TRP B 30	3492 2224 2546 -608 500 554	C
ATOM 3291 CD1 TRP B 30	-26.604 -24.502 -33.041 1.00 22.15	C
ANISOU 3291 CD1 TRP B 30	3622 2248 2548 -530 463 643	C
ATOM 3292 CD2 TRP B 30	-27.929 -22.766 -33.560 1.00 20.52	C
ANISOU 3292 CD2 TRP B 30	3263 2202 2331 -593 480 502	C

ATOM 3293 NE1 TRP B 30	-26.169 -23.410 -32.329 1.00 22.27	N
ANISOU 3293 NE1 TRP B 30	3612 2376 2471 -477 421 642	N
ATOM 3294 CE2 TRP B 30	-26.961 -22.334 -32.630 1.00 20.55	C
ANISOU 3294 CE2 TRP B 30	3306 2251 2250 -515 434 554	C
ATOM 3295 CE3 TRP B 30	-28.868 -21.842 -34.033 1.00 18.93	C
ANISOU 3295 CE3 TRP B 30	2965 2082 2145 -634 495 415	C
ATOM 3296 CZ2 TRP B 30	-26.914 -21.020 -32.154 1.00 19.33	C
ANISOU 3296 CZ2 TRP B 30	3103 2214 2028 -487 410 514	C
ATOM 3297 CZ3 TRP B 30	-28.812 -20.534 -33.564 1.00 18.84	C
ANISOU 3297 CZ3 TRP B 30	2907 2178 2071 -595 472 383	C
ATOM 3298 CH2 TRP B 30	-27.843 -20.141 -32.632 1.00 18.63	C
ANISOU 3298 CH2 TRP B 30	2928 2188 1964 -527 433 429	C
ATOM 3299 H TRP B 30	-30.706 -24.255 -33.346 1.00 26.60	H
ATOM 3300 HA TRP B 30	-30.020 -26.380 -34.880 1.00 27.00	H
ATOM 3301 HB2 TRP B 30	-27.828 -25.779 -35.018 1.00 26.01	H
ATOM 3302 HB3 TRP B 30	-28.668 -24.543 -35.536 1.00 26.01	H
ATOM 3303 HD1 TRP B 30	-26.219 -25.347 -33.006 1.00 26.58	H
ATOM 3304 HE1 TRP B 30	-25.507 -23.404 -31.780 1.00 26.72	H
ATOM 3305 HE3 TRP B 30	-29.514 -22.097 -34.651 1.00 22.71	H
ATOM 3306 HZ2 TRP B 30	-26.270 -20.754 -31.538 1.00 23.20	H
ATOM 3307 HZ3 TRP B 30	-29.433 -19.912 -33.868 1.00 22.60	H
ATOM 3308 HH2 TRP B 30	-27.831 -19.260 -32.333 1.00 22.36	H
ATOM 3309 N SER B 31	-28.908 -27.671 -33.042 1.00 22.58	N
ANISOU 3309 N SER B 31	3731 2075 2775 -735 637 698	N
ATOM 3310 CA SER B 31	-28.716 -28.529 -31.880 1.00 24.21	C
ANISOU 3310 CA SER B 31	4014 2238 2948 -716 656 818	C
ATOM 3311 C SER B 31	-27.577 -29.516 -32.119 1.00 26.18	C
ANISOU 3311 C SER B 31	4337 2360 3252 -639 612 873	C
ATOM 3312 O SER B 31	-27.534 -30.179 -33.160 1.00 25.22	O
ANISOU 3312 O SER B 31	4209 2141 3232 -655 611 816	O
ATOM 3313 CB SER B 31	-30.007 -29.288 -31.564 1.00 25.08	C
ANISOU 3313 CB SER B 31	4110 2325 3094 -820 735 828	C
ATOM 3314 OG SER B 31	-29.783 -30.246 -30.548 1.00 28.39	O
ANISOU 3314 OG SER B 31	4611 2684 3492 -805 754 952	O
ATOM 3315 H SER B 31	-28.631 -28.008 -33.783 1.00 27.10	H
ATOM 3316 HA SER B 31	-28.489 -27.982 -31.112 1.00 29.06	H
ATOM 3317 HB2 SER B 31	-30.679 -28.657 -31.263 1.00 30.10	H
ATOM 3318 HB3 SER B 31	-30.311 -29.742 -32.366 1.00 30.10	H
ATOM 3319 HG SER B 31	-29.201 -30.798 -30.796 1.00 34.07	H
ATOM 3320 N ASN B 32	-26.675 -29.626 -31.141 1.00 28.71	N
ANISOU 3320 N ASN B 32	4719 2688 3503 -555 575 980	N
ATOM 3321 CA ASN B 32	-25.597 -30.619 -31.169 1.00 31.02	C
ANISOU 3321 CA ASN B 32	5077 2864 3844 -471 531 1049	C
ATOM 3322 C ASN B 32	-24.894 -30.625 -32.524 1.00 29.79	C
ANISOU 3322 C ASN B 32	4900 2641 3776 -427 491 960	C
ATOM 3323 O ASN B 32	-24.600 -31.674 -33.098 1.00 30.75	O
ANISOU 3323 O ASN B 32	5051 2635 3997 -412 492 955	O
ATOM 3324 CB ASN B 32	-26.136 -32.001 -30.822 1.00 34.46	C
ANISOU 3324 CB ASN B 32	5564 3187 4342 -524 582 1117	C
ATOM 3325 CG ASN B 32	-26.741 -32.054 -29.439 1.00 36.91	C
ANISOU 3325 CG ASN B 32	5901 3562 4559 -562 623 1217	C
ATOM 3326 OD1 ASN B 32	-26.434 -31.224 -28.582 1.00 36.94	O
ANISOU 3326 OD1 ASN B 32	5903 3686 4446 -520 597 1258	O

ATOM	3327	ND2 ASN B 32	-27.606 -33.033 -29.210	1.00 39.01	N
ANISOU	3327	ND2 ASN B 32	6192 3754 4875	-646 689 1254	N
ATOM	3328	H ASN B 32	-26.666 -29.129 -30.439	1.00 34.46	H
ATOM	3329	HA ASN B 32	-24.939 -30.382 -30.497	1.00 37.22	H
ATOM	3330	HB2 ASN B 32	-26.824 -32.243 -31.461	1.00 41.35	H
ATOM	3331	HB3 ASN B 32	-25.409 -32.643 -30.857	1.00 41.35	H
ATOM	3332	HD21 ASN B 32	-27.978 -33.106 -28.438	1.00 46.81	H
ATOM	3333	HD22 ASN B 32	-27.794 -33.595 -29.833	1.00 46.81	H
ATOM	3334	N THR B 33	-24.615 -29.433 -33.035	1.00 27.70	N
ANISOU	3334	N THR B 33	4585 2464 3475	-405 458 887	N
ATOM	3335	CA THR B 33	-24.104 -29.310 -34.386	1.00 26.63	C
ANISOU	3335	CA THR B 33	4420 2282 3415	-379 432 791	C
ATOM	3336	C THR B 33	-22.640 -29.740 -34.448	1.00 28.91	C
ANISOU	3336	C THR B 33	4749 2506 3729	-251 369 836	C
ATOM	3337	O THR B 33	-21.999 -30.039 -33.434	1.00 29.34	O
ANISOU	3337	O THR B 33	4848 2565 3737	-178 335 941	O
ATOM	3338	CB THR B 33	-24.242 -27.872 -34.885	1.00 24.69	C
ANISOU	3338	CB THR B 33	4108 2153 3121	-396 413 708	C
ATOM	3339	OG1 THR B 33	-23.368 -27.013 -34.140	1.00 24.54	O
ANISOU	3339	OG1 THR B 33	4075 2240 3011	-307 345 746	O
ATOM	3340	CG2 THR B 33	-25.685 -27.389 -34.741	1.00 23.88	C
ANISOU	3340	CG2 THR B 33	3956 2126 2993	-512 472 666	C
ATOM	3341	H THR B 33	-24.712 -28.686 -32.620	1.00 33.24	H
ATOM	3342	HA THR B 33	-24.616 -29.887 -34.975	1.00 31.95	H
ATOM	3343	HB THR B 33	-24.002 -27.835 -35.824	1.00 29.63	H
ATOM	3344	HG1 THR B 33	-22.571 -27.261 -34.236	1.00 29.45	H
ATOM	3345	HG21 THR B 33	-25.761 -26.476 -35.060	1.00 28.66	H
ATOM	3346	HG22 THR B 33	-26.277 -27.955 -35.260	1.00 28.66	H
ATOM	3347	HG23 THR B 33	-25.953 -27.421 -33.810	1.00 28.66	H
ATOM	3348	N GLY B 34	-22.132 -29.816 -35.674	1.00 29.02	N
ANISOU	3348	N GLY B 34	4741 2465 3822	-222 353 750	N
ATOM	3349	CA GLY B 34	-20.709 -29.738 -35.918	1.00 29.66	C
ANISOU	3349	CA GLY B 34	4823 2530 3915	-94 288 758	C
ATOM	3350	C GLY B 34	-20.387 -28.285 -36.201	1.00 29.07	C
ANISOU	3350	C GLY B 34	4642 2623 3778	-74 230 682	C
ATOM	3351	O GLY B 34	-20.712 -27.413 -35.390	1.00 30.16	O
ANISOU	3351	O GLY B 34	4761 2875 3823	-95 218 709	O
ATOM	3352	H GLY B 34	-22.603 -29.915 -36.387	1.00 34.83	H
ATOM	3353	HA2 GLY B 34	-20.213 -30.035 -35.139	1.00 35.59	H
ATOM	3354	HA3 GLY B 34	-20.464 -30.280 -36.684	1.00 35.59	H
ATOM	3355	N SER B 35	-19.779 -28.003 -37.347	1.00 26.20	N
ANISOU	3355	N SER B 35	4214 2274 3466	-39 202 585	N
ATOM	3356	CA SER B 35	-19.626 -26.633 -37.821	1.00 24.42	C
ANISOU	3356	CA SER B 35	3890 2191 3196	-42 162 505	C
ATOM	3357	C SER B 35	-20.781 -26.282 -38.750	1.00 22.18	C
ANISOU	3357	C SER B 35	3562 1932 2933	-148 205 411	C
ATOM	3358	O SER B 35	-21.249 -27.123 -39.524	1.00 21.65	O
ANISOU	3358	O SER B 35	3516 1773 2937	-196 248 366	O
ATOM	3359	CB SER B 35	-18.297 -26.456 -38.556	1.00 25.53	C
ANISOU	3359	CB SER B 35	3980 2347 3374	52 111 458	C
ATOM	3360	OG SER B 35	-17.203 -26.664 -37.681	1.00 28.08	O
ANISOU	3360	OG SER B 35	4324 2670 3675	156 59 541	O
ATOM	3361	H SER B 35	-19.442 -28.594 -37.873	1.00 31.44	H

ATOM 3362	HA SER B 35	-19.643 -26.025 -37.066	1.00 29.30	H
ATOM 3363	HB2 SER B 35	-18.248 -27.100 -39.280	1.00 30.64	H
ATOM 3364	HB3 SER B 35	-18.250 -25.554 -38.911	1.00 30.64	H
ATOM 3365	HG SER B 35	-16.479 -26.564 -38.096	1.00 33.70	H
ATOM 3366	N PHE B 36	-21.238 -25.036 -38.671	1.00 20.81	N
ANISOU 3366	N PHE B 36	3324 1882 2698	-182 190 378	N
ATOM 3367	CA PHE B 36	-22.305 -24.567 -39.546	1.00 19.49	C
ANISOU 3367	CA PHE B 36	3103 1757 2544	-268 218 294	C
ATOM 3368	C PHE B 36	-22.253 -23.047 -39.626	1.00 18.24	C
ANISOU 3368	C PHE B 36	2869 1732 2331	-257 179 258	C
ATOM 3369	O PHE B 36	-21.717 -22.378 -38.737	1.00 18.24	O
ANISOU 3369	O PHE B 36	2866 1791 2275	-211 147 300	O
ATOM 3370	CB PHE B 36	-23.684 -25.025 -39.055	1.00 20.02	C
ANISOU 3370	CB PHE B 36	3199 1796 2610	-366 280 316	C
ATOM 3371	CG PHE B 36	-24.196 -24.255 -37.865	1.00 19.80	C
ANISOU 3371	CG PHE B 36	3167 1855 2503	-383 287 367	C
ATOM 3372	CD1 PHE B 36	-23.884 -24.654 -36.576	1.00 21.45	C
ANISOU 3372	CD1 PHE B 36	3446 2041 2664	-353 294 469	C
ATOM 3373	CD2 PHE B 36	-25.007 -23.149 -38.040	1.00 19.20	C
ANISOU 3373	CD2 PHE B 36	3017 1884 2397	-426 290 313	C
ATOM 3374	CE1 PHE B 36	-24.361 -23.953 -35.488	1.00 21.16	C
ANISOU 3374	CE1 PHE B 36	3406 2091 2542	-372 305 506	C
ATOM 3375	CE2 PHE B 36	-25.483 -22.443 -36.960	1.00 19.07	C
ANISOU 3375	CE2 PHE B 36	2993 1944 2309	-439 303 347	C
ATOM 3376	CZ PHE B 36	-25.161 -22.841 -35.680	1.00 20.41	C
ANISOU 3376	CZ PHE B 36	3234 2097 2424	-416 314 439	C
ATOM 3377	H PHE B 36	-20.947 -24.443 -38.120	1.00 24.97	H
ATOM 3378	HA PHE B 36	-22.167 -24.923 -40.438	1.00 23.38	H
ATOM 3379	HB2 PHE B 36	-24.324 -24.916 -39.776	1.00 24.02	H
ATOM 3380	HB3 PHE B 36	-23.630 -25.959 -38.802	1.00 24.02	H
ATOM 3381	HD1 PHE B 36	-23.344 -25.398 -36.443	1.00 25.74	H
ATOM 3382	HD2 PHE B 36	-25.225 -22.872 -38.901	1.00 23.05	H
ATOM 3383	HE1 PHE B 36	-24.141 -24.226 -34.626	1.00 25.39	H
ATOM 3384	HE2 PHE B 36	-26.023 -21.697 -37.094	1.00 22.88	H
ATOM 3385	HZ PHE B 36	-25.485 -22.367 -34.948	1.00 24.49	H
ATOM 3386	N AVAL B 37	-22.813 -22.518 -40.713	0.40 17.98	N
ANISOU 3386	N AVAL B 37	2776 1742 2315	-300 182 177	N
ATOM 3387	N BVAL B 37	-22.831 -22.510 -40.698	0.60 17.96	N
ANISOU 3387	N BVAL B 37	2773 1740 2312	-301 183 178	N
ATOM 3388	CA AVAL B 37	-22.950 -21.077 -40.923	0.40 17.27	C
ANISOU 3388	CA AVAL B 37	2615 1761 2184	-297 154 143	C
ATOM 3389	CA BVAL B 37	-22.966 -21.064 -40.864	0.60 17.27	C
ANISOU 3389	CA BVAL B 37	2617 1763 2183	-297 154 145	C
ATOM 3390	C AVAL B 37	-24.203 -20.841 -41.758	0.40 16.84	C
ANISOU 3390	C AVAL B 37	2514 1739 2145	-371 177 82	C
ATOM 3391	C BVAL B 37	-24.160 -20.794 -41.771	0.60 16.82	C
ANISOU 3391	C BVAL B 37	2511 1739 2142	-368 174 82	C
ATOM 3392	O AVAL B 37	-24.401 -21.495 -42.788	0.40 17.01	O
ANISOU 3392	O AVAL B 37	2533 1723 2208	-401 187 32	O
ATOM 3393	O BVAL B 37	-24.278 -21.382 -42.852	0.60 16.83	O
ANISOU 3393	O BVAL B 37	2506 1706 2182	-393 181 30	O
ATOM 3394	CB AVAL B 37	-21.717 -20.464 -41.622	0.40 16.93	C
ANISOU 3394	CB AVAL B 37	2537 1751 2145	-231 108 113	C

ATOM 3395 CB BVAL B 37	-21.673 -20.425 -41.420 0.60 16.93	C
ANISOU 3395 CB BVAL B 37	2540 1753 2138 -227 106 123	C
ATOM 3396 CG1AVAL B 37	-21.807 -18.939 -41.630 0.40 16.61	C
ANISOU 3396 CG1AVAL B 37	2438 1808 2066 -228 83 93	C
ATOM 3397 CG1BVAL B 37	-21.267 -21.064 -42.741 0.60 16.92	C
ANISOU 3397 CG1BVAL B 37	2534 1708 2188 -221 110 68	C
ATOM 3398 CG2AVAL B 37	-20.423 -20.915 -40.958 0.40 17.22	C
ANISOU 3398 CG2AVAL B 37	2609 1752 2181 -155 82 163	C
ATOM 3399 CG2BVAL B 37	-21.827 -18.910 -41.566 0.60 16.69	C
ANISOU 3399 CG2BVAL B 37	2449 1820 2074 -229 83 95	C
ATOM 3400 H AVAL B 37	-23.129 -22.986 -41.361 0.40 21.58	H
ATOM 3401 H BVAL B 37	-23.157 -22.967 -41.350 0.60 21.55	H
ATOM 3402 HA AVAL B 37	-23.066 -20.637 -40.067 0.40 20.72	H
ATOM 3403 HA BVAL B 37	-23.149 -20.663 -40.000 0.60 20.73	H
ATOM 3404 HB AVAL B 37	-21.698 -20.765 -42.544 0.40 20.32	H
ATOM 3405 HB BVAL B 37	-20.956 -20.585 -40.788 0.60 20.31	H
ATOM 3406 HG11AVAL B 37	-22.628 -18.670 -41.190 0.40 19.93	H
ATOM 3407 HG11BVAL B 37	-21.911 -21.752 -42.970 0.60 20.30	H
ATOM 3408 HG12AVAL B 37	-21.042 -18.576 -41.156 0.40 19.93	H
ATOM 3409 HG12BVAL B 37	-21.254 -20.381 -43.430 0.60 20.30	H
ATOM 3410 HG13AVAL B 37	-21.806 -18.628 -42.549 0.40 19.93	H
ATOM 3411 HG13BVAL B 37	-20.385 -21.454 -42.645 0.60 20.30	H
ATOM 3412 HG21AVAL B 37	-19.673 -20.511 -41.423 0.40 20.66	H
ATOM 3413 HG21BVAL B 37	-21.001 -18.541 -41.916 0.60 20.03	H
ATOM 3414 HG22AVAL B 37	-20.429 -20.631 -40.031 0.40 20.66	H
ATOM 3415 HG22BVAL B 37	-22.558 -18.724 -42.177 0.60 20.03	H
ATOM 3416 HG23AVAL B 37	-20.362 -21.881 -41.009 0.40 20.66	H
ATOM 3417 HG23BVAL B 37	-22.018 -18.527 -40.695 0.60 20.03	H
ATOM 3418 N VAL B 38	-25.042 -19.901 -41.323 1.00 15.64	N
ANISOU 3418 N VAL B 38	2321 1661 1959 -398 182 81	N
ATOM 3419 CA VAL B 38	-26.307 -19.595 -41.990 1.00 14.44	C
ANISOU 3419 CA VAL B 38	2112 1553 1820 -460 197 30	C
ATOM 3420 C VAL B 38	-26.518 -18.087 -41.972 1.00 13.61	C
ANISOU 3420 C VAL B 38	1948 1540 1684 -435 172 16	C
ATOM 3421 O VAL B 38	-26.297 -17.442 -40.942 1.00 13.73	O
ANISOU 3421 O VAL B 38	1971 1581 1664 -406 171 49	O
ATOM 3422 CB VAL B 38	-27.491 -20.295 -41.286 1.00 15.71	C
ANISOU 3422 CB VAL B 38	2286 1692 1990 -535 253 47	C
ATOM 3423 CG1 VAL B 38	-28.833 -19.861 -41.897 1.00 16.11	C
ANISOU 3423 CG1 VAL B 38	2258 1810 2055 -595 263 -10	C
ATOM 3424 CG2 VAL B 38	-27.325 -21.810 -41.334 1.00 15.92	C
ANISOU 3424 CG2 VAL B 38	2381 1609 2060 -566 285 62	C
ATOM 3425 H AVAL B 38	-24.897 -19.418 -40.627 0.40 18.76	H
ATOM 3426 H BVAL B 38	-24.924 -19.443 -40.605 0.60 18.76	H
ATOM 3427 HA VAL B 38	-26.272 -19.894 -42.912 1.00 17.32	H
ATOM 3428 HB VAL B 38	-27.495 -20.031 -40.353 1.00 18.85	H
ATOM 3429 HG11 VAL B 38	-29.553 -20.317 -41.434 1.00 19.34	H
ATOM 3430 HG12 VAL B 38	-28.930 -18.901 -41.795 1.00 19.34	H
ATOM 3431 HG13 VAL B 38	-28.842 -20.097 -42.838 1.00 19.34	H
ATOM 3432 HG21 VAL B 38	-28.079 -22.224 -40.886 1.00 19.10	H
ATOM 3433 HG22 VAL B 38	-27.293 -22.095 -42.261 1.00 19.10	H
ATOM 3434 HG23 VAL B 38	-26.500 -22.051 -40.885 1.00 19.10	H
ATOM 3435 N GLY B 39	-26.989 -17.523 -43.082 1.00 13.38	N

ANISOU 3435 N GLY B 39	1861 1559 1666 -445 151 -32	N
ATOM 3436 CA GLY B 39	-27.339 -16.116 -43.060 1.00 14.13	C
ANISOU 3436 CA GLY B 39	1901 1726 1742 -420 132 -39	C
ATOM 3437 C GLY B 39	-27.655 -15.547 -44.427 1.00 13.46	C
ANISOU 3437 C GLY B 39	1763 1687 1665 -418 100 -77	C
ATOM 3438 O GLY B 39	-27.529 -16.209 -45.463 1.00 12.61	O
ANISOU 3438 O GLY B 39	1658 1567 1567 -436 90 -107	O
ATOM 3439 H GLY B 39	-27.110 -17.921 -43.835 1.00 16.06	H
ATOM 3440 HA2 GLY B 39	-28.116 -15.989 -42.493 1.00 16.96	H
ATOM 3441 HA3 GLY B 39	-26.602 -15.609 -42.684 1.00 16.96	H
ATOM 3442 N LYS B 40	-28.067 -14.279 -44.397 1.00 13.96	N
ANISOU 3442 N LYS B 40	1780 1804 1720 -391 85 -77	N
ATOM 3443 CA LYS B 40	-28.340 -13.493 -45.591 1.00 14.08	C
ANISOU 3443 CA LYS B 40	1746 1868 1734 -373 49 -94	C
ATOM 3444 C LYS B 40	-27.250 -12.442 -45.750 1.00 13.17	C
ANISOU 3444 C LYS B 40	1646 1749 1608 -317 26 -71	C
ATOM 3445 O LYS B 40	-26.771 -11.867 -44.763 1.00 11.16	O
ANISOU 3445 O LYS B 40	1410 1479 1352 -292 35 -53	O
ATOM 3446 CB LYS B 40	-29.713 -12.808 -45.517 1.00 15.70	C
ANISOU 3446 CB LYS B 40	1883 2132 1952 -379 50 -106	C
ATOM 3447 CG LYS B 40	-30.923 -13.753 -45.588 1.00 16.73	C
ANISOU 3447 CG LYS B 40	1975 2284 2099 -445 70 -138	C
ATOM 3448 CD LYS B 40	-31.468 -13.876 -46.981 1.00 17.21	C
ANISOU 3448 CD LYS B 40	1987 2395 2156 -463 30 -172	C
ATOM 3449 CE LYS B 40	-32.704 -14.768 -47.074 1.00 17.29	C
ANISOU 3449 CE LYS B 40	1947 2435 2189 -538 47 -216	C
ATOM 3450 NZ LYS B 40	-33.971 -14.141 -46.605 1.00 16.45	N
ANISOU 3450 NZ LYS B 40	1756 2392 2103 -538 57 -223	N
ATOM 3451 H LYS B 40	-28.199 -13.841 -43.668 1.00 16.75	H
ATOM 3452 HA LYS B 40	-28.326 -14.072 -46.369 1.00 16.89	H
ATOM 3453 HB2 LYS B 40	-29.771 -12.323 -44.679 1.00 18.84	H
ATOM 3454 HB3 LYS B 40	-29.786 -12.185 -46.257 1.00 18.84	H
ATOM 3455 HG2 LYS B 40	-30.654 -14.636 -45.291 1.00 20.08	H
ATOM 3456 HG3 LYS B 40	-31.628 -13.410 -45.018 1.00 20.08	H
ATOM 3457 HD2 LYS B 40	-31.713 -12.994 -47.301 1.00 20.65	H
ATOM 3458 HD3 LYS B 40	-30.783 -14.256 -47.553 1.00 20.65	H
ATOM 3459 HE2 LYS B 40	-32.831 -15.025 -48.000 1.00 20.75	H
ATOM 3460 HE3 LYS B 40	-32.554 -15.561 -46.535 1.00 20.75	H
ATOM 3461 HZ1 LYS B 40	-33.895 -13.906 -45.750 1.00 19.74	H
ATOM 3462 HZ2 LYS B 40	-34.148 -13.416 -47.090 1.00 19.74	H
ATOM 3463 HZ3 LYS B 40	-34.645 -14.716 -46.688 1.00 19.74	H
ATOM 3464 N GLY B 41	-26.859 -12.202 -46.990 1.00 13.45	N
ANISOU 3464 N GLY B 41	1674 1804 1633 -304 -2 -76	N
ATOM 3465 CA GLY B 41	-25.873 -11.188 -47.284 1.00 13.66	C
ANISOU 3465 CA GLY B 41	1710 1827 1652 -262 -18 -53	C
ATOM 3466 C GLY B 41	-25.714 -10.954 -48.769 1.00 13.73	C
ANISOU 3466 C GLY B 41	1707 1871 1639 -257 -42 -53	C
ATOM 3467 O GLY B 41	-26.702 -10.863 -49.505 1.00 13.81	O
ANISOU 3467 O GLY B 41	1682 1929 1637 -267 -62 -61	O
ATOM 3468 H GLY B 41	-27.155 -12.617 -47.683 1.00 16.14	H
ATOM 3469 HA2 GLY B 41	-26.134 -10.352 -46.867 1.00 16.39	H
ATOM 3470 HA3 GLY B 41	-25.014 -11.458 -46.922 1.00 16.39	H
ATOM 3471 N TRP B 42	-24.469 -10.882 -49.216 1.00 12.78	N

ANISOU 3471 N TRP B 42	1613 1735 1507 -243 -41 -46	N
ATOM 3472 CA TRP B 42	-24.162 -10.518 -50.584 1.00 13.82	C
ANISOU 3472 CA TRP B 42	1741 1905 1607 -238 -55 -38	C
ATOM 3473 C TRP B 42	-23.295 -11.578 -51.253 1.00 13.68	C
ANISOU 3473 C TRP B 42	1747 1881 1570 -253 -41 -71	C
ATOM 3474 O TRP B 42	-22.427 -12.186 -50.616 1.00 13.35	O
ANISOU 3474 O TRP B 42	1728 1794 1551 -248 -22 -82	O
ATOM 3475 CB TRP B 42	-23.491 -9.143 -50.597 1.00 13.94	C
ANISOU 3475 CB TRP B 42	1757 1910 1628 -207 -56 5	C
ATOM 3476 CG TRP B 42	-24.444 -8.063 -50.126 1.00 14.89	C
ANISOU 3476 CG TRP B 42	1854 2031 1772 -185 -68 31	C
ATOM 3477 CD1 TRP B 42	-25.261 -7.302 -50.902 1.00 16.03	C
ANISOU 3477 CD1 TRP B 42	1974 2211 1904 -165 -93 60	C
ATOM 3478 CD2 TRP B 42	-24.693 -7.660 -48.768 1.00 14.47	C
ANISOU 3478 CD2 TRP B 42	1797 1944 1756 -174 -56 27	C
ATOM 3479 NE1 TRP B 42	-25.996 -6.441 -50.120 1.00 15.71	N
ANISOU 3479 NE1 TRP B 42	1913 2153 1903 -138 -94 72	N
ATOM 3480 CE2 TRP B 42	-25.667 -6.644 -48.806 1.00 14.88	C
ANISOU 3480 CE2 TRP B 42	1821 2007 1826 -147 -68 47	C
ATOM 3481 CE3 TRP B 42	-24.191 -8.063 -47.525 1.00 14.77	C
ANISOU 3481 CE3 TRP B 42	1855 1948 1809 -182 -37 8	C
ATOM 3482 CZ2 TRP B 42	-26.144 -6.021 -47.652 1.00 14.48	C
ANISOU 3482 CZ2 TRP B 42	1759 1932 1811 -129 -54 38	C
ATOM 3483 CZ3 TRP B 42	-24.667 -7.437 -46.384 1.00 13.76	C
ANISOU 3483 CZ3 TRP B 42	1719 1805 1703 -170 -27 3	C
ATOM 3484 CH2 TRP B 42	-25.631 -6.433 -46.458 1.00 13.65	C
ANISOU 3484 CH2 TRP B 42	1676 1800 1711 -145 -32 12	C
ATOM 3485 H TRP B 42	-23.774 -11.044 -48.735 1.00 15.33	H
ATOM 3486 HA TRP B 42	-24.990 -10.451 -51.085 1.00 16.59	H
ATOM 3487 HB2 TRP B 42	-22.725 -9.154 -50.002 1.00 16.73	H
ATOM 3488 HB3 TRP B 42	-23.213 -8.930 -51.501 1.00 16.73	H
ATOM 3489 HD1 TRP B 42	-25.310 -7.351 -51.830 1.00 19.23	H
ATOM 3490 HE1 TRP B 42	-26.569 -5.869 -50.410 1.00 18.85	H
ATOM 3491 HE3 TRP B 42	-23.548 -8.733 -47.467 1.00 17.73	H
ATOM 3492 HZ2 TRP B 42	-26.785 -5.349 -47.696 1.00 17.38	H
ATOM 3493 HZ3 TRP B 42	-24.339 -7.693 -45.553 1.00 16.51	H
ATOM 3494 HH2 TRP B 42	-25.929 -6.031 -45.674 1.00 16.38	H
ATOM 3495 N THR B 43	-23.554 -11.791 -52.550 1.00 14.28	N
ANISOU 3495 N THR B 43	1816 2008 1602 -267 -53 -90	N
ATOM 3496 CA THR B 43	-22.840 -12.804 -53.326 1.00 15.54	C
ANISOU 3496 CA THR B 43	1996 2169 1739 -283 -35 -136	C
ATOM 3497 C THR B 43	-21.359 -12.487 -53.428 1.00 16.11	C
ANISOU 3497 C THR B 43	2083 2224 1814 -258 -10 -121	C
ATOM 3498 O THR B 43	-20.509 -13.377 -53.288 1.00 16.62	O
ANISOU 3498 O THR B 43	2164 2254 1898 -253 14 -155	O
ATOM 3499 CB THR B 43	-23.447 -12.896 -54.727 1.00 17.03	C
ANISOU 3499 CB THR B 43	2173 2434 1864 -304 -56 -160	C
ATOM 3500 OG1 THR B 43	-24.811 -13.301 -54.626 1.00 18.12	O
ANISOU 3500 OG1 THR B 43	2285 2594 2006 -333 -82 -185	O
ATOM 3501 CG2 THR B 43	-22.683 -13.889 -55.607 1.00 18.70	C
ANISOU 3501 CG2 THR B 43	2407 2652 2045 -320 -31 -221	C
ATOM 3502 H THR B 43	-24.143 -11.357 -53.002 1.00 17.14	H
ATOM 3503 HA THR B 43	-22.938 -13.667 -52.894 1.00 18.64	H

ATOM	3504	HB	THR	B	43	-23.405	-12.024	-55.149	1.00	20.43	H
ATOM	3505	HG1	THR	B	43	-25.244	-12.742	-54.173	1.00	21.75	H
ATOM	3506	HG21	THR	B	43	-23.087	-13.929	-56.488	1.00	22.44	H
ATOM	3507	HG22	THR	B	43	-21.759	-13.609	-55.696	1.00	22.44	H
ATOM	3508	HG23	THR	B	43	-22.709	-14.772	-55.208	1.00	22.44	H
ATOM	3509	N	THR	B	44	-21.033	-11.233	-53.718	1.00	16.14	N
ANISOU	3509	N	THR	B	44	2078	2252	1802	-242	-14	N
ATOM	3510	CA	THR	B	44	-19.658	-10.772	-53.811	1.00	16.17	C
ANISOU	3510	CA	THR	B	44	2085	2246	1814	-229	14	C
ATOM	3511	C	THR	B	44	-19.445	-9.726	-52.731	1.00	15.09	C
ANISOU	3511	C	THR	B	44	1940	2070	1722	-213	9	C
ATOM	3512	O	THR	B	44	-20.098	-8.674	-52.741	1.00	15.29	O
ANISOU	3512	O	THR	B	44	1961	2100	1747	-208	-7	O
ATOM	3513	CB	THR	B	44	-19.360	-10.199	-55.194	1.00	18.58	C
ANISOU	3513	CB	THR	B	44	2392	2609	2057	-236	25	C
ATOM	3514	OG1	THR	B	44	-19.672	-11.182	-56.181	1.00	20.02	O
ANISOU	3514	OG1	THR	B	44	2582	2837	2187	-254	26	O
ATOM	3515	CG2	THR	B	44	-17.886	-9.807	-55.309	1.00	19.44	C
ANISOU	3515	CG2	THR	B	44	2496	2711	2179	-233	65	C
ATOM	3516	H	THR	B	44	-21.611	-10.614	-53.868	1.00	19.37	H
ATOM	3517	HA	THR	B	44	-19.054	-11.514	-53.647	1.00	19.41	H
ATOM	3518	HB	THR	B	44	-19.902	-9.408	-55.341	1.00	22.29	H
ATOM	3519	HG1	THR	B	44	-20.485	-11.389	-56.133	1.00	24.03	H
ATOM	3520	HG21	THR	B	44	-17.708	-9.444	-56.190	1.00	23.33	H
ATOM	3521	HG22	THR	B	44	-17.669	-9.137	-54.642	1.00	23.33	H
ATOM	3522	HG23	THR	B	44	-17.325	-10.585	-55.168	1.00	23.33	H
ATOM	3523	N	GLY	B	45	-18.538	-10.024	-51.806	1.00	14.04	N
ANISOU	3523	N	GLY	B	45	1805	1898	1629	-203	20	N
ATOM	3524	CA	GLY	B	45	-18.240	-9.105	-50.733	1.00	13.51	C
ANISOU	3524	CA	GLY	B	45	1731	1802	1601	-194	14	C
ATOM	3525	C	GLY	B	45	-17.504	-7.876	-51.219	1.00	12.28	C
ANISOU	3525	C	GLY	B	45	1566	1652	1449	-201	29	C
ATOM	3526	O	GLY	B	45	-16.842	-7.881	-52.255	1.00	12.42	O
ANISOU	3526	O	GLY	B	45	1579	1699	1442	-211	53	O
ATOM	3527	H	GLY	B	45	-18.084	-10.755	-51.784	1.00	16.84	H
ATOM	3528	HA2	GLY	B	45	-19.066	-8.823	-50.311	1.00	16.21	H
ATOM	3529	HA3	GLY	B	45	-17.691	-9.550	-50.069	1.00	16.21	H
ATOM	3530	N	SER	B	46	-17.638	-6.802	-50.438	1.00	11.69	N
ANISOU	3530	N	SER	B	46	1488	1546	1407	-200	21	N
ATOM	3531	CA	SER	B	46	-16.926	-5.562	-50.668	1.00	12.09	C
ANISOU	3531	CA	SER	B	46	1533	1582	1479	-215	40	C
ATOM	3532	C	SER	B	46	-16.227	-5.135	-49.385	1.00	11.47	C
ANISOU	3532	C	SER	B	46	1440	1471	1448	-220	35	C
ATOM	3533	O	SER	B	46	-16.795	-5.277	-48.293	1.00	10.21	O
ANISOU	3533	O	SER	B	46	1285	1295	1298	-207	14	O
ATOM	3534	CB	SER	B	46	-17.869	-4.439	-51.127	1.00	11.59	C
ANISOU	3534	CB	SER	B	46	1486	1503	1414	-210	35	C
ATOM	3535	OG	SER	B	46	-17.207	-3.179	-51.051	1.00	12.35	O
ANISOU	3535	OG	SER	B	46	1584	1559	1550	-228	56	O
ATOM	3536	H	SER	B	46	-18.154	-6.775	-49.750	1.00	14.02	H
ATOM	3537	HA	SER	B	46	-16.253	-5.698	-51.354	1.00	14.51	H
ATOM	3538	HB2	SER	B	46	-18.135	-4.603	-52.045	1.00	13.91	H
ATOM	3539	HB3	SER	B	46	-18.648	-4.423	-50.550	1.00	13.91	H

ATOM 3540	HG SER B 46	-17.725 -2.568 -51.303 1.00 14.82	H
ATOM 3541	N PRO B 47	-15.007 -4.596 -49.476 1.00 13.08	N
ANISOU 3541	N PRO B 47	1622 1672 1677 -243 56 45	N
ATOM 3542	CA PRO B 47	-14.367 -4.022 -48.285 1.00 13.77	C
ANISOU 3542	CA PRO B 47	1690 1736 1807 -256 46 15	C
ATOM 3543	C PRO B 47	-14.969 -2.693 -47.849 1.00 14.43	C
ANISOU 3543	C PRO B 47	1792 1767 1923 -266 47 28	C
ATOM 3544	O PRO B 47	-14.567 -2.163 -46.805 1.00 16.04	O
ANISOU 3544	O PRO B 47	1984 1951 2159 -280 37 -9	O
ATOM 3545	CB PRO B 47	-12.911 -3.852 -48.729 1.00 14.33	C
ANISOU 3545	CB PRO B 47	1721 1826 1898 -285 73 4	C
ATOM 3546	CG PRO B 47	-13.004 -3.646 -50.192 1.00 14.65	C
ANISOU 3546	CG PRO B 47	1776 1878 1912 -299 110 48	C
ATOM 3547	CD PRO B 47	-14.145 -4.491 -50.666 1.00 13.44	C
ANISOU 3547	CD PRO B 47	1654 1743 1708 -266 93 62	C
ATOM 3548	HA PRO B 47	-14.406 -4.650 -47.547 1.00 16.53	H
ATOM 3549	HB2 PRO B 47	-12.521 -3.077 -48.294 1.00 17.20	H
ATOM 3550	HB3 PRO B 47	-12.407 -4.655 -48.524 1.00 17.20	H
ATOM 3551	HG2 PRO B 47	-13.176 -2.709 -50.376 1.00 17.58	H
ATOM 3552	HG3 PRO B 47	-12.176 -3.928 -50.612 1.00 17.58	H
ATOM 3553	HD2 PRO B 47	-14.618 -4.048 -51.388 1.00 16.12	H
ATOM 3554	HD3 PRO B 47	-13.829 -5.368 -50.933 1.00 16.12	H
ATOM 3555	N PHE B 48	-15.929 -2.158 -48.601 1.00 13.18	N
ANISOU 3555	N PHE B 48	1661 1588 1757 -256 55 74	N
ATOM 3556	CA PHE B 48	-16.646 -0.942 -48.231 1.00 12.27	C
ANISOU 3556	CA PHE B 48	1566 1415 1681 -251 57 88	C
ATOM 3557	C PHE B 48	-18.115 -1.203 -47.926 1.00 13.22	C
ANISOU 3557	C PHE B 48	1698 1538 1785 -209 34 92	C
ATOM 3558	O PHE B 48	-18.900 -0.255 -47.817 1.00 13.43	O
ANISOU 3558	O PHE B 48	1739 1520 1843 -190 36 110	O
ATOM 3559	CB PHE B 48	-16.483 0.090 -49.339 1.00 12.45	C
ANISOU 3559	CB PHE B 48	1607 1402 1720 -267 87 149	C
ATOM 3560	CG PHE B 48	-15.058 0.484 -49.550 1.00 13.26	C
ANISOU 3560	CG PHE B 48	1691 1496 1849 -320 119 142	C
ATOM 3561	CD1 PHE B 48	-14.385 1.221 -48.585 1.00 14.30	C
ANISOU 3561	CD1 PHE B 48	1808 1584 2040 -354 125 95	C
ATOM 3562	CD2 PHE B 48	-14.370 0.073 -50.672 1.00 13.87	C
ANISOU 3562	CD2 PHE B 48	1760 1619 1891 -340 146 171	C
ATOM 3563	CE1 PHE B 48	-13.062 1.568 -48.757 1.00 15.21	C
ANISOU 3563	CE1 PHE B 48	1895 1700 2186 -410 155 81	C
ATOM 3564	CE2 PHE B 48	-13.045 0.424 -50.855 1.00 15.01	C
ANISOU 3564	CE2 PHE B 48	1876 1765 2064 -392 184 160	C
ATOM 3565	CZ PHE B 48	-12.388 1.169 -49.885 1.00 15.41	C
ANISOU 3565	CZ PHE B 48	1904 1769 2180 -429 187 115	C
ATOM 3566	H PHE B 48	-16.189 -2.492 -49.349 1.00 15.81	H
ATOM 3567	HA PHE B 48	-16.241 -0.577 -47.428 1.00 14.72	H
ATOM 3568	HB2 PHE B 48	-16.818 -0.282 -50.170 1.00 14.94	H
ATOM 3569	HB3 PHE B 48	-16.984 0.887 -49.106 1.00 14.94	H
ATOM 3570	HD1 PHE B 48	-14.835 1.493 -47.819 1.00 17.16	H
ATOM 3571	HD2 PHE B 48	-14.807 -0.427 -51.322 1.00 16.64	H
ATOM 3572	HE1 PHE B 48	-12.625 2.072 -48.108 1.00 18.26	H
ATOM 3573	HE2 PHE B 48	-12.591 0.151 -51.619 1.00 18.02	H
ATOM 3574	HZ PHE B 48	-11.497 1.407 -50.005 1.00 18.49	H

ATOM 3575 N ARG B 49	-18.480 -2.464 -47.727 1.00 13.35	N
ANISOU 3575 N ARG B 49	1708 1603 1761 -196 16 72	N
ATOM 3576 CA ARG B 49	-19.843 -2.840 -47.376 1.00 14.39	C
ANISOU 3576 CA ARG B 49	1841 1746 1879 -168 0 68	C
ATOM 3577 C ARG B 49	-20.269 -2.214 -46.055 1.00 13.75	C
ANISOU 3577 C ARG B 49	1761 1633 1829 -159 1 33	C
ATOM 3578 O ARG B 49	-19.505 -2.183 -45.087 1.00 12.38	O
ANISOU 3578 O ARG B 49	1587 1453 1664 -176 1 -6	O
ATOM 3579 CB ARG B 49	-19.933 -4.367 -47.275 1.00 14.99	C
ANISOU 3579 CB ARG B 49	1914 1868 1915 -169 -11 48	C
ATOM 3580 CG ARG B 49	-21.339 -4.912 -47.017 1.00 16.52	C
ANISOU 3580 CG ARG B 49	2103 2081 2094 -155 -21 42	C
ATOM 3581 CD ARG B 49	-22.176 -4.868 -48.271 1.00 17.51	C
ANISOU 3581 CD ARG B 49	2219 2232 2200 -145 -31 75	C
ATOM 3582 NE ARG B 49	-21.596 -5.709 -49.320 1.00 17.19	N
ANISOU 3582 NE ARG B 49	2185 2225 2123 -161 -31 78	N
ATOM 3583 CZ ARG B 49	-21.952 -5.668 -50.597 1.00 19.06	C
ANISOU 3583 CZ ARG B 49	2420 2497 2326 -160 -41 105	C
ATOM 3584 NH1 ARG B 49	-22.894 -4.832 -51.001 1.00 20.55	N
ANISOU 3584 NH1 ARG B 49	2598 2692 2516 -136 -57 141	N
ATOM 3585 NH2 ARG B 49	-21.358 -6.461 -51.478 1.00 19.97	N
ANISOU 3585 NH2 ARG B 49	2542 2644 2402 -177 -34 95	N
ATOM 3586 H ARG B 49	-17.944 -3.134 -47.791 1.00 16.02	H
ATOM 3587 HA ARG B 49	-20.451 -2.540 -48.069 1.00 17.27	H
ATOM 3588 HB2 ARG B 49	-19.619 -4.750 -48.109 1.00 17.99	H
ATOM 3589 HB3 ARG B 49	-19.365 -4.662 -46.546 1.00 17.99	H
ATOM 3590 HG2 ARG B 49	-21.277 -5.834 -46.723 1.00 19.83	H
ATOM 3591 HG3 ARG B 49	-21.774 -4.370 -46.340 1.00 19.83	H
ATOM 3592 HD2 ARG B 49	-23.067 -5.197 -48.075 1.00 21.01	H
ATOM 3593 HD3 ARG B 49	-22.218 -3.956 -48.599 1.00 21.01	H
ATOM 3594 HE ARG B 49	-20.982 -6.266 -49.093 1.00 20.63	H
ATOM 3595 HH11 ARG B 49	-23.279 -4.313 -50.434 1.00 24.66	H
ATOM 3596 HH12 ARG B 49	-23.122 -4.810 -51.829 1.00 24.66	H
ATOM 3597 HH21 ARG B 49	-20.746 -7.007 -51.221 1.00 23.97	H
ATOM 3598 HH22 ARG B 49	-21.593 -6.436 -52.305 1.00 23.97	H
ATOM 3599 N THR B 50	-21.506 -1.723 -46.018 1.00 14.94	N
ANISOU 3599 N THR B 50	1910 1772 1996 -130 0 44	N
ATOM 3600 CA THR B 50	-22.168 -1.298 -44.785 1.00 15.66	C
ANISOU 3600 CA THR B 50	1997 1845 2108 -115 8 2	C
ATOM 3601 C THR B 50	-23.295 -2.287 -44.518 1.00 15.01	C
ANISOU 3601 C THR B 50	1898 1811 1993 -103 2 -6	C
ATOM 3602 O THR B 50	-24.250 -2.371 -45.300 1.00 15.21	O
ANISOU 3602 O THR B 50	1905 1857 2018 -83 -6 23	O
ATOM 3603 CB THR B 50	-22.709 0.126 -44.903 1.00 17.88	C
ANISOU 3603 CB THR B 50	2281 2066 2446 -86 20 14	C
ATOM 3604 OG1 THR B 50	-21.649 1.010 -45.275 1.00 19.61	O
ANISOU 3604 OG1 THR B 50	2519 2231 2700 -109 31 28	O
ATOM 3605 CG2 THR B 50	-23.308 0.584 -43.576 1.00 17.86	C
ANISOU 3605 CG2 THR B 50	2275 2045 2467 -71 36 -46	C
ATOM 3606 H THR B 50	-21.997 -1.622 -46.717 1.00 17.93	H
ATOM 3607 HA THR B 50	-21.540 -1.333 -44.046 1.00 18.79	H
ATOM 3608 HB THR B 50	-23.404 0.152 -45.579 1.00 21.45	H
ATOM 3609 HG1 THR B 50	-21.326 0.776 -46.013 1.00 23.53	H

ATOM	3610	HG21	THR	B	50	-23.649	1.489	-43.662	1.00	21.43		H
ATOM	3611	HG22	THR	B	50	-24.036	-0.004	-43.321	1.00	21.43		H
ATOM	3612	HG23	THR	B	50	-22.630	0.567	-42.883	1.00	21.43		H
ATOM	3613	N	ILE	B	51	-23.174	-3.049	-43.436	1.00	12.41		N
ANISOU	3613	N	ILE	B	51	1574	1504	1635	-119	7	-42	N
ATOM	3614	CA	ILE	B	51	-24.139	-4.087	-43.099	1.00	12.00		C
ANISOU	3614	CA	ILE	B	51	1511	1493	1554	-122	11	-48	C
ATOM	3615	C	ILE	B	51	-25.038	-3.565	-41.990	1.00	14.17		C
ANISOU	3615	C	ILE	B	51	1775	1770	1840	-108	35	-84	C
ATOM	3616	O	ILE	B	51	-24.558	-3.205	-40.908	1.00	14.63		O
ANISOU	3616	O	ILE	B	51	1851	1818	1890	-114	46	-120	O
ATOM	3617	CB	ILE	B	51	-23.449	-5.391	-42.669	1.00	11.03		C
ANISOU	3617	CB	ILE	B	51	1409	1392	1390	-147	6	-51	C
ATOM	3618	CG1	ILE	B	51	-22.509	-5.912	-43.774	1.00	11.46		C
ANISOU	3618	CG1	ILE	B	51	1470	1446	1439	-156	-10	-27	C
ATOM	3619	CG2	ILE	B	51	-24.504	-6.450	-42.292	1.00	10.74		C
ANISOU	3619	CG2	ILE	B	51	1367	1384	1330	-160	21	-53	C
ATOM	3620	CD1	ILE	B	51	-21.060	-5.434	-43.614	1.00	10.45		C
ANISOU	3620	CD1	ILE	B	51	1350	1300	1321	-160	-18	-34	C
ATOM	3621	H	ILE	B	51	-22.529	-2.981	-42.871	1.00	14.89		H
ATOM	3622	HA	ILE	B	51	-24.691	-4.276	-43.874	1.00	14.39		H
ATOM	3623	HB	ILE	B	51	-22.915	-5.204	-41.882	1.00	13.24		H
ATOM	3624	HG12	ILE	B	51	-22.506	-6.882	-43.752	1.00	13.75		H
ATOM	3625	HG13	ILE	B	51	-22.832	-5.602	-44.634	1.00	13.75		H
ATOM	3626	HG21	ILE	B	51	-24.050	-7.265	-42.024	1.00	12.89		H
ATOM	3627	HG22	ILE	B	51	-25.040	-6.113	-41.558	1.00	12.89		H
ATOM	3628	HG23	ILE	B	51	-25.067	-6.622	-43.062	1.00	12.89		H
ATOM	3629	HD11	ILE	B	51	-20.527	-5.797	-44.339	1.00	12.54		H
ATOM	3630	HD12	ILE	B	51	-21.043	-4.465	-43.644	1.00	12.54		H
ATOM	3631	HD13	ILE	B	51	-20.717	-5.746	-42.762	1.00	12.54		H
ATOM	3632	N	ASN	B	52	-26.339	-3.546	-42.255	1.00	13.82		N
ANISOU	3632	N	ASN	B	52	1697	1746	1810	-90	44	-80	N
ATOM	3633	CA	ASN	B	52	-27.353	-3.255	-41.255	1.00	13.85		C
ANISOU	3633	CA	ASN	B	52	1677	1763	1820	-77	76	-118	C
ATOM	3634	C	ASN	B	52	-28.085	-4.538	-40.888	1.00	12.90		C
ANISOU	3634	C	ASN	B	52	1544	1694	1663	-108	93	-120	C
ATOM	3635	O	ASN	B	52	-28.359	-5.380	-41.751	1.00	13.19		O
ANISOU	3635	O	ASN	B	52	1567	1752	1693	-125	76	-93	O
ATOM	3636	CB	ASN	B	52	-28.354	-2.225	-41.774	1.00	16.18		C
ANISOU	3636	CB	ASN	B	52	1930	2045	2171	-28	78	-114	C
ATOM	3637	CG	ASN	B	52	-27.681	-0.988	-42.303	1.00	18.42		C
ANISOU	3637	CG	ASN	B	52	2234	2264	2499	0	65	-97	C
ATOM	3638	OD1	ASN	B	52	-27.245	-0.136	-41.534	1.00	19.40		O
ANISOU	3638	OD1	ASN	B	52	2380	2343	2647	5	84	-135	O
ATOM	3639	ND2	ASN	B	52	-27.588	-0.880	-43.625	1.00	19.41		N
ANISOU	3639	ND2	ASN	B	52	2357	2384	2635	13	34	-41	N
ATOM	3640	H	ASN	B	52	-26.667	-3.703	-43.034	1.00	16.59		H
ATOM	3641	HA	ASN	B	52	-26.931	-2.900	-40.457	1.00	16.61		H
ATOM	3642	HB2	ASN	B	52	-28.870	-2.619	-42.495	1.00	19.41		H
ATOM	3643	HB3	ASN	B	52	-28.943	-1.962	-41.049	1.00	19.41		H
ATOM	3644	HD21	ASN	B	52	-27.212	-0.191	-43.974	1.00	23.30		H
ATOM	3645	HD22	ASN	B	52	-27.905	-1.500	-44.130	1.00	23.30		H
ATOM	3646	N	TYR	B	53	-28.416	-4.683	-39.611	1.00	11.54		N

ANISOU 3646 N TYR B 53	1378 1543 1465 -120 130 -153	N
ATOM 3647 CA TYR B 53	-29.117 -5.882 -39.195 1.00 12.73	C
ANISOU 3647 CA TYR B 53	1521 1734 1582 -158 156 -148	C
ATOM 3648 C TYR B 53	-29.854 -5.624 -37.892 1.00 13.38	C
ANISOU 3648 C TYR B 53	1593 1847 1645 -160 209 -189	C
ATOM 3649 O TYR B 53	-29.550 -4.682 -37.145 1.00 13.52	O
ANISOU 3649 O TYR B 53	1624 1853 1660 -138 222 -227	O
ATOM 3650 CB TYR B 53	-28.157 -7.071 -39.042 1.00 12.71	C
ANISOU 3650 CB TYR B 53	1572 1724 1533 -193 142 -119	C
ATOM 3651 CG TYR B 53	-27.308 -7.035 -37.780 1.00 12.93	C
ANISOU 3651 CG TYR B 53	1649 1753 1512 -197 150 -130	C
ATOM 3652 CD1 TYR B 53	-26.052 -6.440 -37.785 1.00 13.96	C
ANISOU 3652 CD1 TYR B 53	1804 1858 1642 -180 115 -136	C
ATOM 3653 CD2 TYR B 53	-27.755 -7.615 -36.599 1.00 13.73	C
ANISOU 3653 CD2 TYR B 53	1769 1886 1562 -222 190 -133	C
ATOM 3654 CE1 TYR B 53	-25.270 -6.404 -36.646 1.00 14.23	C
ANISOU 3654 CE1 TYR B 53	1875 1907 1626 -184 112 -151	C
ATOM 3655 CE2 TYR B 53	-26.987 -7.586 -35.448 1.00 13.20	C
ANISOU 3655 CE2 TYR B 53	1748 1832 1433 -223 189 -140	C
ATOM 3656 CZ TYR B 53	-25.744 -6.981 -35.474 1.00 13.59	C
ANISOU 3656 CZ TYR B 53	1816 1864 1484 -202 145 -152	C
ATOM 3657 OH TYR B 53	-24.964 -6.951 -34.338 1.00 13.57	O
ANISOU 3657 OH TYR B 53	1852 1888 1416 -204 134 -165	O
ATOM 3658 H TYR B 53	-28.251 -4.117 -38.984 1.00 13.85	H
ATOM 3659 HA TYR B 53	-29.774 -6.113 -39.870 1.00 15.28	H
ATOM 3660 HB2 TYR B 53	-28.677 -7.889 -39.024 1.00 15.25	H
ATOM 3661 HB3 TYR B 53	-27.555 -7.083 -39.803 1.00 15.25	H
ATOM 3662 HD1 TYR B 53	-25.735 -6.049 -38.568 1.00 16.75	H
ATOM 3663 HD2 TYR B 53	-28.592 -8.019 -36.577 1.00 16.48	H
ATOM 3664 HE1 TYR B 53	-24.434 -5.998 -36.664 1.00 17.08	H
ATOM 3665 HE2 TYR B 53	-27.302 -7.975 -34.665 1.00 15.83	H
ATOM 3666 HH TYR B 53	-24.239 -6.559 -34.498 1.00 16.29	H
ATOM 3667 N ASN B 54	-30.820 -6.496 -37.629 1.00 13.94	N
ANISOU 3667 N ASN B 54	1638 1958 1701 -194 245 -186	N
ATOM 3668 CA ASN B 54	-31.547 -6.502 -36.366 1.00 14.91	C
ANISOU 3668 CA ASN B 54	1751 2121 1791 -210 309 -219	C
ATOM 3669 C ASN B 54	-31.785 -7.954 -35.977 1.00 14.57	C
ANISOU 3669 C ASN B 54	1733 2101 1703 -273 338 -185	C
ATOM 3670 O ASN B 54	-32.435 -8.698 -36.722 1.00 14.24	O
ANISOU 3670 O ASN B 54	1655 2066 1691 -303 338 -168	O
ATOM 3671 CB ASN B 54	-32.869 -5.734 -36.492 1.00 16.78	C
ANISOU 3671 CB ASN B 54	1905 2388 2083 -179 340 -259	C
ATOM 3672 CG ASN B 54	-33.624 -5.643 -35.180 1.00 18.91	C
ANISOU 3672 CG ASN B 54	2159 2706 2318 -192 417 -304	C
ATOM 3673 OD1 ASN B 54	-33.669 -6.598 -34.407 1.00 19.32	O
ANISOU 3673 OD1 ASN B 54	2244 2788 2308 -247 456 -287	O
ATOM 3674 ND2 ASN B 54	-34.217 -4.482 -34.918 1.00 19.66	N
ANISOU 3674 ND2 ASN B 54	2207 2808 2455 -141 444 -360	N
ATOM 3675 H ASN B 54	-31.077 -7.107 -38.177 1.00 16.73	H
ATOM 3676 HA ASN B 54	-31.008 -6.081 -35.677 1.00 17.89	H
ATOM 3677 HB2 ASN B 54	-32.682 -4.831 -36.793 1.00 20.14	H
ATOM 3678 HB3 ASN B 54	-33.437 -6.186 -37.135 1.00 20.14	H
ATOM 3679 HD21 ASN B 54	-34.658 -4.380 -34.187 1.00 23.59	H

ATOM 3680	HD22 ASN B 54	-34.160 -3.834 -35.480	1.00 23.59	H
ATOM 3681	N ALA B 55	-31.237 -8.369 -34.835	1.00 13.36	N
ANISOU 3681	N ALA B 55	1643 1955 1478	-294 361 -174	N
ATOM 3682	CA ALA B 55	-31.376 -9.743 -34.358	1.00 14.05	C
ANISOU 3682	CA ALA B 55	1769 2051 1520	-351 393 -128	C
ATOM 3683	C ALA B 55	-32.522 -9.769 -33.356	1.00 15.70	C
ANISOU 3683	C ALA B 55	1951 2317 1698	-382 476 -152	C
ATOM 3684	O ALA B 55	-32.334 -9.479 -32.172	1.00 16.50	O
ANISOU 3684	O ALA B 55	2089 2451 1730	-380 509 -165	O
ATOM 3685	CB ALA B 55	-30.079 -10.252 -33.737	1.00 14.71	C
ANISOU 3685	CB ALA B 55	1939 2111 1537	-349 364 -86	C
ATOM 3686	H ALA B 55	-30.774 -7.866 -34.313	1.00 16.03	H
ATOM 3687	HA ALA B 55	-31.606 -10.320 -35.103	1.00 16.86	H
ATOM 3688	HB1 ALA B 55	-30.212 -11.164 -33.434	1.00 17.65	H
ATOM 3689	HB2 ALA B 55	-29.377 -10.224 -34.406	1.00 17.65	H
ATOM 3690	HB3 ALA B 55	-29.845 -9.685 -32.986	1.00 17.65	H
ATOM 3691	N GLY B 56	-33.715 -10.118 -33.841	1.00 15.90	N
ANISOU 3691	N GLY B 56	1905 2363 1772	-415 511 -161	N
ATOM 3692	CA GLY B 56	-34.873 -10.178 -32.970	1.00 16.51	C
ANISOU 3692	CA GLY B 56	1941 2502 1830	-451 599 -187	C
ATOM 3693	C GLY B 56	-34.787 -11.299 -31.956	1.00 17.84	C
ANISOU 3693	C GLY B 56	2182 2678 1919	-516 655 -135	C
ATOM 3694	O GLY B 56	-35.346 -11.189 -30.861	1.00 18.84	O
ANISOU 3694	O GLY B 56	2308 2861 1990	-538 731 -151	O
ATOM 3695	H GLY B 56	-33.873 -10.321 -34.661	1.00 19.08	H
ATOM 3696	HA2 GLY B 56	-34.959 -9.339 -32.492	1.00 19.81	H
ATOM 3697	HA3 GLY B 56	-35.671 -10.310 -33.505	1.00 19.81	H
ATOM 3698	N VAL B 57	-34.099 -12.386 -32.305	1.00 17.43	N
ANISOU 3698	N VAL B 57	2195 2567 1859	-544 622 -69	N
ATOM 3699	CA VAL B 57	-33.828 -13.490 -31.395	1.00 17.77	C
ANISOU 3699	CA VAL B 57	2326 2598 1830	-594 662 0	C
ATOM 3700	C VAL B 57	-32.349 -13.818 -31.493	1.00 16.12	C
ANISOU 3700	C VAL B 57	2203 2331 1591	-555 587 51	C
ATOM 3701	O VAL B 57	-31.836 -14.081 -32.588	1.00 15.76	O
ANISOU 3701	O VAL B 57	2153 2228 1605	-538 526 58	O
ATOM 3702	CB VAL B 57	-34.676 -14.737 -31.719	1.00 19.05	C
ANISOU 3702	CB VAL B 57	2473 2734 2031	-680 714 33	C
ATOM 3703	CG1 VAL B 57	-34.302 -15.899 -30.798	1.00 20.00	C
ANISOU 3703	CG1 VAL B 57	2699 2820 2079	-726 756 122	C
ATOM 3704	CG2 VAL B 57	-36.170 -14.423 -31.584	1.00 20.51	C
ANISOU 3704	CG2 VAL B 57	2555 2990 2248	-723 793 -22	C
ATOM 3705	H VAL B 57	-33.771 -12.507 -33.090	1.00 20.91	H
ATOM 3706	HA VAL B 57	-34.022 -13.215 -30.485	1.00 21.33	H
ATOM 3707	HB VAL B 57	-34.506 -15.009 -32.634	1.00 22.86	H
ATOM 3708	HG11 VAL B 57	-34.850 -16.668 -31.023	1.00 24.00	H
ATOM 3709	HG12 VAL B 57	-33.364 -16.112 -30.925	1.00 24.00	H
ATOM 3710	HG13 VAL B 57	-34.462 -15.637 -29.878	1.00 24.00	H
ATOM 3711	HG21 VAL B 57	-36.680 -15.221 -31.792	1.00 24.61	H
ATOM 3712	HG22 VAL B 57	-36.352 -14.142 -30.673	1.00 24.61	H
ATOM 3713	HG23 VAL B 57	-36.400 -13.712 -32.202	1.00 24.61	H
ATOM 3714	N TRP B 58	-31.669 -13.815 -30.352	1.00 15.50	N
ANISOU 3714	N TRP B 58	2198 2274 1416	-539 589 84	N
ATOM 3715	CA TRP B 58	-30.272 -14.240 -30.294	1.00 15.50	C

ANISOU 3715	CA	TRP B 58	2276	2231	1382	-501	519	139	C
ATOM 3716	C	TRP B 58	-30.121	-15.057	-29.014	1.00	16.41		C
ANISOU 3716	C	TRP B 58	2479	2363	1392	-527	559	216	C
ATOM 3717	O	TRP B 58	-30.071	-14.506	-27.909	1.00	16.35		O
ANISOU 3717	O	TRP B 58	2494	2429	1289	-517	579	203	O
ATOM 3718	CB	TRP B 58	-29.307	-13.056	-30.350	1.00	15.27		C
ANISOU 3718	CB	TRP B 58	2236	2222	1344	-433	449	88	C
ATOM 3719	CG	TRP B 58	-27.904	-13.517	-30.240	1.00	16.27		C
ANISOU 3719	CG	TRP B 58	2427	2317	1436	-396	378	141	C
ATOM 3720	CD1	TRP B 58	-26.997	-13.189	-29.270	1.00	17.01		C
ANISOU 3720	CD1	TRP B 58	2566	2455	1441	-363	342	148	C
ATOM 3721	CD2	TRP B 58	-27.250	-14.447	-31.107	1.00	16.80		C
ANISOU 3721	CD2	TRP B 58	2518	2308	1558	-386	335	190	C
ATOM 3722	NE1	TRP B 58	-25.814	-13.856	-29.490	1.00	17.86		N
ANISOU 3722	NE1	TRP B 58	2716	2521	1549	-328	276	205	N
ATOM 3723	CE2	TRP B 58	-25.942	-14.629	-30.615	1.00	16.97		C
ANISOU 3723	CE2	TRP B 58	2592	2330	1527	-339	274	230	C
ATOM 3724	CE3	TRP B 58	-27.643	-15.136	-32.262	1.00	17.13		C
ANISOU 3724	CE3	TRP B 58	2536	2285	1687	-411	342	196	C
ATOM 3725	CZ2	TRP B 58	-25.026	-15.478	-31.231	1.00	17.88		C
ANISOU 3725	CZ2	TRP B 58	2734	2377	1680	-310	226	278	C
ATOM 3726	CZ3	TRP B 58	-26.728	-15.979	-32.876	1.00	17.43		C
ANISOU 3726	CZ3	TRP B 58	2609	2254	1758	-388	296	238	C
ATOM 3727	CH2	TRP B 58	-25.438	-16.147	-32.354	1.00	17.02		C
ANISOU 3727	CH2	TRP B 58	2608	2199	1660	-334	242	279	C
ATOM 3728	H	TRP B 58	-31.994	-13.571	-29.594	1.00	18.60		H
ATOM 3729	HA	TRP B 58	-30.083	-14.820	-31.048	1.00	18.60		H
ATOM 3730	HB2	TRP B 58	-29.413	-12.594	-31.196	1.00	18.33		H
ATOM 3731	HB3	TRP B 58	-29.491	-12.455	-29.611	1.00	18.33		H
ATOM 3732	HD1	TRP B 58	-27.159	-12.607	-28.563	1.00	20.41		H
ATOM 3733	HE1	TRP B 58	-25.106	-13.791	-29.005	1.00	21.43		H
ATOM 3734	HE3	TRP B 58	-28.502	-15.038	-32.604	1.00	20.55		H
ATOM 3735	HZ2	TRP B 58	-24.166	-15.584	-30.895	1.00	21.45		H
ATOM 3736	HZ3	TRP B 58	-26.976	-16.445	-33.641	1.00	20.91		H
ATOM 3737	HH2	TRP B 58	-24.841	-16.709	-32.792	1.00	20.42		H
ATOM 3738	N	ALA B 59	-30.086	-16.380	-29.164	1.00	16.95		N
ANISOU 3738	N	ALA B 59	2601	2363	1475	-561	573	297	N
ATOM 3739	CA	ALA B 59	-30.127	-17.304	-28.029	1.00	17.50		C
ANISOU 3739	CA	ALA B 59	2759	2435	1453	-594	624	390	C
ATOM 3740	C	ALA B 59	-29.176	-18.469	-28.275	1.00	18.85		C
ANISOU 3740	C	ALA B 59	3010	2510	1641	-572	576	482	C
ATOM 3741	O	ALA B 59	-29.599	-19.627	-28.396	1.00	19.84		O
ANISOU 3741	O	ALA B 59	3177	2562	1801	-625	624	545	O
ATOM 3742	CB	ALA B 59	-31.556	-17.798	-27.795	1.00	18.55		C
ANISOU 3742	CB	ALA B 59	2870	2580	1599	-686	735	397	C
ATOM 3743	H	ALA B 59	-30.038	-16.775	-29.927	1.00	20.34		H
ATOM 3744	HA	ALA B 59	-29.835	-16.838	-27.230	1.00	20.99		H
ATOM 3745	HB1	ALA B 59	-31.559	-18.408	-27.040	1.00	22.26		H
ATOM 3746	HB2	ALA B 59	-32.127	-17.037	-27.609	1.00	22.26		H
ATOM 3747	HB3	ALA B 59	-31.866	-18.257	-28.592	1.00	22.26		H
ATOM 3748	N	PRO B 60	-27.872	-18.199	-28.329	1.00	19.31		N
ANISOU 3748	N	PRO B 60	3092	2566	1681	-493	484	489	N
ATOM 3749	CA	PRO B 60	-26.894	-19.279	-28.491	1.00	21.32		C

ANISOU 3749	CA	PRO B 60	3417	2734	1951	-455	436	576	C
ATOM 3750	C	PRO B 60	-26.630	-20.026	-27.192	1.00	25.52		C
ANISOU 3750	C	PRO B 60	4050	3275	2370	-450	453	690	C
ATOM 3751	O	PRO B 60	-26.689	-19.466	-26.096	1.00	24.34		O
ANISOU 3751	O	PRO B 60	3919	3226	2103	-448	465	694	O
ATOM 3752	CB	PRO B 60	-25.635	-18.534	-28.942	1.00	19.84		C
ANISOU 3752	CB	PRO B 60	3196	2564	1777	-372	334	530	C
ATOM 3753	CG	PRO B 60	-25.744	-17.212	-28.242	1.00	18.70		C
ANISOU 3753	CG	PRO B 60	3015	2534	1558	-365	330	462	C
ATOM 3754	CD	PRO B 60	-27.220	-16.875	-28.279	1.00	19.15		C
ANISOU 3754	CD	PRO B 60	3026	2618	1634	-436	420	413	C
ATOM 3755	HA	PRO B 60	-27.174	-19.900	-29.181	1.00	25.59		H
ATOM 3756	HB2	PRO B 60	-24.843	-19.015	-28.654	1.00	23.80		H
ATOM 3757	HB3	PRO B 60	-25.643	-18.420	-29.905	1.00	23.80		H
ATOM 3758	HG2	PRO B 60	-25.434	-17.298	-27.327	1.00	22.45		H
ATOM 3759	HG3	PRO B 60	-25.227	-16.544	-28.720	1.00	22.45		H
ATOM 3760	HD2	PRO B 60	-27.478	-16.401	-27.473	1.00	22.99		H
ATOM 3761	HD3	PRO B 60	-27.430	-16.364	-29.076	1.00	22.99		H
ATOM 3762	N	AASN B 61	-26.324	-21.317	-27.333	0.67	29.16		N
ANISOU 3762	N	AASN B 61	4583	3630	2867	-446	455	785	N
ATOM 3763	N	BASN B 61	-26.316	-21.313	-27.338	0.33	29.26		N
ANISOU 3763	N	BASN B 61	4595	3642	2879	-446	455	785	N
ATOM 3764	CA	AASN B 61	-25.957	-22.175	-26.203	0.67	31.67		C
ANISOU 3764	CA	AASN B 61	4974	3944	3114	-413	451	901	C
ATOM 3765	CA	BASN B 61	-25.961	-22.185	-26.216	0.33	31.66		C
ANISOU 3765	CA	BASN B 61	4972	3941	3114	-414	451	901	C
ATOM 3766	C	AASN B 61	-24.650	-22.874	-26.565	0.67	32.56		C
ANISOU 3766	C	AASN B 61	5134	3975	3263	-329	367	964	C
ATOM 3767	C	BASN B 61	-24.647	-22.876	-26.571	0.33	32.51		C
ANISOU 3767	C	BASN B 61	5127	3967	3257	-329	367	964	C
ATOM 3768	O	AASN B 61	-24.652	-23.925	-27.214	0.67	33.55		O
ANISOU 3768	O	AASN B 61	5281	3975	3490	-334	381	1000	O
ATOM 3769	O	BASN B 61	-24.644	-23.924	-27.224	0.33	33.43		O
ANISOU 3769	O	BASN B 61	5266	3960	3476	-334	381	1000	O
ATOM 3770	CB	AASN B 61	-27.065	-23.171	-25.882	0.67	33.95		C
ANISOU 3770	CB	AASN B 61	5275	4184	3441	-485	543	953	C
ATOM 3771	CB	BASN B 61	-27.072	-23.190	-25.925	0.33	34.02		C
ANISOU 3771	CB	BASN B 61	5283	4189	3454	-486	544	952	C
ATOM 3772	CG	AASN B 61	-26.669	-24.154	-24.790	0.67	35.88		C
ANISOU 3772	CG	AASN B 61	5592	4415	3626	-450	537	1085	C
ATOM 3773	CG	BASN B 61	-28.273	-22.555	-25.251	0.33	34.84		C
ANISOU 3773	CG	BASN B 61	5342	4394	3502	-551	624	906	C
ATOM 3774	OD1A	AASN B 61	-25.677	-23.957	-24.087	0.67	36.13		O
ANISOU 3774	OD1A	AASN B 61	5656	4505	3567	-373	467	1132	O
ATOM 3775	OD1B	AASN B 61	-28.149	-21.545	-24.559	0.33	35.42		O
ANISOU 3775	OD1B	AASN B 61	5400	4583	3476	-528	611	867	O
ATOM 3776	ND2A	AASN B 61	-27.446	-25.223	-24.646	0.67	37.34		N
ANISOU 3776	ND2A	AASN B 61	5798	4526	3862	-510	607	1145	N
ATOM 3777	ND2B	AASN B 61	-29.444	-23.153	-25.442	0.33	35.96		N
ANISOU 3777	ND2B	AASN B 61	5457	4493	3712	-632	708	903	N
ATOM 3778	H	AASN B 61	-26.322	-21.727	-28.089	0.67	35.00		H
ATOM 3779	H	BASN B 61	-26.302	-21.716	-28.098	0.33	35.11		H
ATOM 3780	HA	AASN B 61	-25.803	-21.626	-25.419	0.67	38.00		H

ATOM	3781	HA	BASN	B	61	-25.820	-21.646	-25.422	0.33	37.99		H
ATOM	3782	HB2AASN	B	61		-27.849	-22.687	-25.579	0.67	40.74		H
ATOM	3783	HB2BASN	B	61		-27.370	-23.583	-26.761	0.33	40.82		H
ATOM	3784	HB3AASN	B	61		-27.276	-23.679	-26.681	0.67	40.74		H
ATOM	3785	HB3BASN	B	61		-26.728	-23.880	-25.337	0.33	40.82		H
ATOM	3786	HD21AASN	B	61		-28.131	-25.328	-25.156	0.67	44.80		H
ATOM	3787	HD21BASN	B	61		-29.492	-23.862	-25.926	0.33	43.15		H
ATOM	3788	HD22AASN	B	61		-27.265	-25.808	-24.043	0.67	44.80		H
ATOM	3789	HD22BASN	B	61		-30.155	-22.831	-25.080	0.33	43.15		H
ATOM	3790	N	GLY	B	62	-23.535	-22.291	-26.132	1.00	29.66		N
ANISOU	3790	N	GLY	B	62	4774	3679	2817	-249	279	969	N
ATOM	3791	CA	GLY	B	62	-22.222	-22.811	-26.462	1.00	25.93		C
ANISOU	3791	CA	GLY	B	62	4326	3147	2378	-155	191	1017	C
ATOM	3792	C	GLY	B	62	-21.529	-21.950	-27.495	1.00	22.96		C
ANISOU	3792	C	GLY	B	62	3858	2789	2075	-116	124	904	C
ATOM	3793	O	GLY	B	62	-21.755	-20.733	-27.547	1.00	19.51		O
ANISOU	3793	O	GLY	B	62	3352	2446	1616	-139	119	805	O
ATOM	3794	H	GLY	B	62	-23.518	-21.586	-25.640	1.00	35.59		H
ATOM	3795	HA2	GLY	B	62	-21.673	-22.840	-25.663	1.00	31.11		H
ATOM	3796	HA3	GLY	B	62	-22.307	-23.711	-26.814	1.00	31.11		H
ATOM	3797	N	TRP	B	63	-20.687	-22.558	-28.331	1.00	24.75		N
ANISOU	3797	N	TRP	B	63	4078	2927	2397	-56	78	914	N
ATOM	3798	CA	TRP	B	63	-19.945	-21.793	-29.332	1.00	25.83		C
ANISOU	3798	CA	TRP	B	63	4123	3086	2606	-18	19	811	C
ATOM	3799	C	TRP	B	63	-20.880	-21.500	-30.495	1.00	24.76		C
ANISOU	3799	C	TRP	B	63	3933	2912	2564	-92	78	720	C
ATOM	3800	O	TRP	B	63	-20.959	-22.244	-31.473	1.00	25.80		O
ANISOU	3800	O	TRP	B	63	4066	2941	2795	-99	99	711	O
ATOM	3801	CB	TRP	B	63	-18.693	-22.527	-29.798	1.00	29.13		C
ANISOU	3801	CB	TRP	B	63	4545	3436	3088	75	-46	848	C
ATOM	3802	CG	TRP	B	63	-17.620	-21.556	-30.248	1.00	30.72		C
ANISOU	3802	CG	TRP	B	63	4655	3714	3305	128	-125	765	C
ATOM	3803	CD1	TRP	B	63	-16.445	-21.278	-29.605	1.00	31.92		C
ANISOU	3803	CD1	TRP	B	63	4787	3942	3398	206	-212	786	C
ATOM	3804	CD2	TRP	B	63	-17.647	-20.712	-31.412	1.00	30.13		C
ANISOU	3804	CD2	TRP	B	63	4493	3650	3305	100	-120	650	C
ATOM	3805	NE1	TRP	B	63	-15.736	-20.324	-30.305	1.00	31.66		N
ANISOU	3805	NE1	TRP	B	63	4657	3962	3408	220	-256	686	N
ATOM	3806	CE2	TRP	B	63	-16.451	-19.962	-31.415	1.00	29.99		C
ANISOU	3806	CE2	TRP	B	63	4409	3708	3276	157	-199	608	C
ATOM	3807	CE3	TRP	B	63	-18.559	-20.526	-32.457	1.00	29.11		C
ANISOU	3807	CE3	TRP	B	63	4334	3477	3247	32	-60	582	C
ATOM	3808	CZ2	TRP	B	63	-16.147	-19.046	-32.418	1.00	28.97		C
ANISOU	3808	CZ2	TRP	B	63	4197	3604	3208	144	-209	508	C
ATOM	3809	CZ3	TRP	B	63	-18.250	-19.614	-33.454	1.00	27.79		C
ANISOU	3809	CZ3	TRP	B	63	4085	3341	3131	28	-78	488	C
ATOM	3810	CH2	TRP	B	63	-17.058	-18.888	-33.426	1.00	27.91		C
ANISOU	3810	CH2	TRP	B	63	4046	3423	3136	82	-147	455	C
ATOM	3811	H	TRP	B	63	-20.529	-23.404	-28.339	1.00	29.69		H
ATOM	3812	HA	TRP	B	63	-19.671	-20.947	-28.945	1.00	31.00		H
ATOM	3813	HB2	TRP	B	63	-18.338	-23.054	-29.065	1.00	34.96		H
ATOM	3814	HB3	TRP	B	63	-18.917	-23.101	-30.547	1.00	34.96		H
ATOM	3815	HD1	TRP	B	63	-16.165	-21.673	-28.811	1.00	38.30		H

ATOM 3816	HE1 TRP B 63	-14.969 -20.007 -30.080	1.00 37.99	H
ATOM 3817	HE3 TRP B 63	-19.355 -21.006 -32.483	1.00 34.93	H
ATOM 3818	HZ2 TRP B 63	-15.353 -18.563 -32.405	1.00 34.77	H
ATOM 3819	HZ3 TRP B 63	-18.850 -19.480 -34.153	1.00 33.34	H
ATOM 3820	HH2 TRP B 63	-16.879 -18.282 -34.108	1.00 33.49	H
ATOM 3821	N GLY B 64	-21.612 -20.401 -30.369	1.00 21.66	N
ANISOU 3821	N GLY B 64	3490 2603 2135	-144 104 648	N
ATOM 3822	CA GLY B 64	-22.404 -19.870 -31.453	1.00 18.48	C
ANISOU 3822	CA GLY B 64	3020 2190 1810	-198 140 556	C
ATOM 3823	C GLY B 64	-22.178 -18.375 -31.508	1.00 18.33	C
ANISOU 3823	C GLY B 64	2929 2267 1769	-187 105 470	C
ATOM 3824	O GLY B 64	-22.104 -17.730 -30.456	1.00 18.53	O
ANISOU 3824	O GLY B 64	2963 2377 1703	-180 94 470	O
ATOM 3825	H GLY B 64	-21.662 -19.939 -29.646	1.00 25.99	H
ATOM 3826	HA2 GLY B 64	-22.133 -20.268 -32.295	1.00 22.17	H
ATOM 3827	HA3 GLY B 64	-23.346 -20.048 -31.301	1.00 22.17	H
ATOM 3828	N ALA B 65	-22.052 -17.814 -32.707	1.00 16.88	N
ANISOU 3828	N ALA B 65	2678 2071 1663	-185 88 395	N
ATOM 3829	CA ALA B 65	-21.687 -16.414 -32.869	1.00 16.53	C
ANISOU 3829	CA ALA B 65	2571 2097 1613	-170 52 320	C
ATOM 3830	C ALA B 65	-22.622 -15.716 -33.842	1.00 15.60	C
ANISOU 3830	C ALA B 65	2395 1978 1556	-212 87 250	C
ATOM 3831	O ALA B 65	-23.042 -16.294 -34.851	1.00 14.63	O
ANISOU 3831	O ALA B 65	2261 1799 1500	-234 107 245	O
ATOM 3832	CB ALA B 65	-20.252 -16.270 -33.377	1.00 15.82	C
ANISOU 3832	CB ALA B 65	2454 2003 1554	-108 -19 308	C
ATOM 3833	H ALA B 65	-22.175 -18.230 -33.450	1.00 20.25	H
ATOM 3834	HA ALA B 65	-21.752 -15.966 -32.011	1.00 19.84	H
ATOM 3835	HB1 ALA B 65	-20.044 -15.327 -33.472	1.00 18.98	H
ATOM 3836	HB2 ALA B 65	-19.648 -16.678 -32.736	1.00 18.98	H
ATOM 3837	HB3 ALA B 65	-20.175 -16.715 -34.235	1.00 18.98	H
ATOM 3838	N LEU B 66	-22.925 -14.461 -33.525	1.00 14.18	N
ANISOU 3838	N LEU B 66	2177 1861 1352	-220 90 195	N
ATOM 3839	CA LEU B 66	-23.635 -13.548 -34.412	1.00 14.37	C
ANISOU 3839	CA LEU B 66	2138 1890 1431	-240 107 131	C
ATOM 3840	C LEU B 66	-22.577 -12.635 -35.017	1.00 14.25	C
ANISOU 3840	C LEU B 66	2087 1882 1447	-203 53 92	C
ATOM 3841	O LEU B 66	-21.986 -11.813 -34.307	1.00 13.46	O
ANISOU 3841	O LEU B 66	1982 1823 1308	-185 27 66	O
ATOM 3842	CB LEU B 66	-24.684 -12.755 -33.634	1.00 14.24	C
ANISOU 3842	CB LEU B 66	2106 1927 1379	-266 153 96	C
ATOM 3843	CG LEU B 66	-25.480 -11.672 -34.367	1.00 13.49	C
ANISOU 3843	CG LEU B 66	1944 1842 1339	-273 170 33	C
ATOM 3844	CD1 LEU B 66	-26.318 -12.283 -35.480	1.00 14.40	C
ANISOU 3844	CD1 LEU B 66	2030 1923 1517	-302 191 39	C
ATOM 3845	CD2 LEU B 66	-26.352 -10.905 -33.396	1.00 15.73	C
ANISOU 3845	CD2 LEU B 66	2214 2180 1583	-286 217 -5	C
ATOM 3846	H LEU B 66	-22.721 -14.104 -32.770	1.00 17.02	H
ATOM 3847	HA LEU B 66	-24.073 -14.043 -35.122	1.00 17.24	H
ATOM 3848	HB2 LEU B 66	-25.330 -13.386 -33.281	1.00 17.09	H
ATOM 3849	HB3 LEU B 66	-24.234 -12.318 -32.894	1.00 17.09	H
ATOM 3850	HG LEU B 66	-24.860 -11.045 -34.771	1.00 16.18	H
ATOM 3851	HD11 LEU B 66	-26.811 -11.577 -35.927	1.00 17.28	H

ATOM	3852	HD12	LEU	B	66	-25.729	-12.726	-36.111	1.00	17.28		H
ATOM	3853	HD13	LEU	B	66	-26.935	-12.925	-35.095	1.00	17.28		H
ATOM	3854	HD21	LEU	B	66	-26.846	-10.227	-33.883	1.00	18.88		H
ATOM	3855	HD22	LEU	B	66	-26.969	-11.522	-32.971	1.00	18.88		H
ATOM	3856	HD23	LEU	B	66	-25.788	-10.488	-32.727	1.00	18.88		H
ATOM	3857	N	ALA	B	67	-22.327	-12.785	-36.317	1.00	13.46		N
ANISOU	3857	N	ALA	B	67	1960	1742	1412	-197	39	83	N
ATOM	3858	CA	ALA	B	67	-21.119	-12.221	-36.898	1.00	12.44		C
ANISOU	3858	CA	ALA	B	67	1805	1613	1309	-165	-8	62	C
ATOM	3859	C	ALA	B	67	-21.275	-12.019	-38.394	1.00	12.54		C
ANISOU	3859	C	ALA	B	67	1782	1600	1384	-172	-4	40	C
ATOM	3860	O	ALA	B	67	-21.908	-12.825	-39.088	1.00	12.59		O
ANISOU	3860	O	ALA	B	67	1793	1577	1414	-191	17	50	O
ATOM	3861	CB	ALA	B	67	-19.914	-13.136	-36.650	1.00	13.22		C
ANISOU	3861	CB	ALA	B	67	1930	1697	1395	-129	-44	100	C
ATOM	3862	H	ALA	B	67	-22.834	-13.201	-36.873	1.00	16.15		H
ATOM	3863	HA	ALA	B	67	-20.938	-11.359	-36.491	1.00	14.93		H
ATOM	3864	HB1	ALA	B	67	-19.126	-12.734	-37.048	1.00	15.86		H
ATOM	3865	HB2	ALA	B	67	-19.787	-13.237	-35.693	1.00	15.86		H
ATOM	3866	HB3	ALA	B	67	-20.085	-14.000	-37.055	1.00	15.86		H
ATOM	3867	N	LEU	B	68	-20.653	-10.951	-38.884	1.00	11.11		N
ANISOU	3867	N	LEU	B	68	1565	1430	1225	-161	-26	10	N
ATOM	3868	CA	LEU	B	68	-20.350	-10.861	-40.304	1.00	10.81		C
ANISOU	3868	CA	LEU	B	68	1501	1374	1232	-159	-31	1	C
ATOM	3869	C	LEU	B	68	-19.313	-11.923	-40.638	1.00	12.05		C
ANISOU	3869	C	LEU	B	68	1671	1511	1398	-136	-48	19	C
ATOM	3870	O	LEU	B	68	-18.281	-12.014	-39.969	1.00	12.91		O
ANISOU	3870	O	LEU	B	68	1782	1631	1492	-110	-75	26	O
ATOM	3871	CB	LEU	B	68	-19.825	-9.467	-40.650	1.00	11.27		C
ANISOU	3871	CB	LEU	B	68	1527	1443	1312	-155	-43	-26	C
ATOM	3872	CG	LEU	B	68	-19.511	-9.195	-42.116	1.00	12.95		C
ANISOU	3872	CG	LEU	B	68	1715	1645	1560	-157	-43	-27	C
ATOM	3873	CD1	LEU	B	68	-20.781	-9.049	-42.904	1.00	13.98		C
ANISOU	3873	CD1	LEU	B	68	1837	1774	1699	-170	-24	-23	C
ATOM	3874	CD2	LEU	B	68	-18.658	-7.933	-42.230	1.00	13.61		C
ANISOU	3874	CD2	LEU	B	68	1776	1732	1665	-157	-52	-44	C
ATOM	3875	H	LEU	B	68	-20.399	-10.273	-38.420	1.00	13.33		H
ATOM	3876	HA	LEU	B	68	-21.152	-11.032	-40.823	1.00	12.97		H
ATOM	3877	HB2	LEU	B	68	-20.490	-8.816	-40.375	1.00	13.52		H
ATOM	3878	HB3	LEU	B	68	-19.007	-9.319	-40.150	1.00	13.52		H
ATOM	3879	HG	LEU	B	68	-19.007	-9.939	-42.481	1.00	15.54		H
ATOM	3880	HD11	LEU	B	68	-20.558	-8.878	-43.833	1.00	16.77		H
ATOM	3881	HD12	LEU	B	68	-21.292	-9.871	-42.833	1.00	16.77		H
ATOM	3882	HD13	LEU	B	68	-21.292	-8.308	-42.544	1.00	16.77		H
ATOM	3883	HD21	LEU	B	68	-18.463	-7.768	-43.165	1.00	16.34		H
ATOM	3884	HD22	LEU	B	68	-19.151	-7.185	-41.857	1.00	16.34		H
ATOM	3885	HD23	LEU	B	68	-17.833	-8.064	-41.737	1.00	16.34		H
ATOM	3886	N	VAL	B	69	-19.607	-12.756	-41.638	1.00	11.57		N
ANISOU	3886	N	VAL	B	69	1614	1421	1359	-144	-32	21	N
ATOM	3887	CA	VAL	B	69	-18.718	-13.826	-42.078	1.00	11.37		C
ANISOU	3887	CA	VAL	B	69	1601	1367	1353	-119	-39	29	C
ATOM	3888	C	VAL	B	69	-18.557	-13.732	-43.587	1.00	10.91		C
ANISOU	3888	C	VAL	B	69	1517	1309	1320	-126	-30	1	C

ATOM 3889 O VAL B 69	-19.552 -13.670 -44.316	1.00 12.49	O
ANISOU 3889 O VAL B 69	1712 1512 1520 -157 -13 -12		O
ATOM 3890 CB VAL B 69	-19.260 -15.214 -41.684	1.00 12.53	C
ANISOU 3890 CB VAL B 69	1796 1466 1499 -125 -21 55		C
ATOM 3891 CG1 VAL B 69	-18.341 -16.340 -42.189	1.00 14.23	C
ANISOU 3891 CG1 VAL B 69	2026 1636 1746 -90 -24 58		C
ATOM 3892 CG2 VAL B 69	-19.423 -15.295 -40.170	1.00 12.04	C
ANISOU 3892 CG2 VAL B 69	1765 1412 1396 -119 -26 93		C
ATOM 3893 H VAL B 69	-20.339 -12.718 -42.087	1.00 13.88	H
ATOM 3894 HA VAL B 69	-17.846 -13.710 -41.669	1.00 13.65	H
ATOM 3895 HB VAL B 69	-20.134 -15.337 -42.087	1.00 15.04	H
ATOM 3896 HG11 VAL B 69	-18.714 -17.195 -41.923	1.00 17.08	H
ATOM 3897 HG12 VAL B 69	-18.283 -16.290 -43.156	1.00 17.08	H
ATOM 3898 HG13 VAL B 69	-17.461 -16.226 -41.798	1.00 17.08	H
ATOM 3899 HG21 VAL B 69	-19.765 -16.172 -39.936	1.00 14.44	H
ATOM 3900 HG22 VAL B 69	-18.559 -15.153 -39.752	1.00 14.44	H
ATOM 3901 HG23 VAL B 69	-20.046 -14.609 -39.883	1.00 14.44	H
ATOM 3902 N GLY B 70	-17.315 -13.757 -44.057	1.00 9.84	N
ANISOU 3902 N GLY B 70	1360 1178 1201 -98 -40 -10		N
ATOM 3903 CA GLY B 70	-17.076 -13.739 -45.486	1.00 9.14	C
ANISOU 3903 CA GLY B 70	1251 1097 1125 -105 -24 -37		C
ATOM 3904 C GLY B 70	-15.737 -14.359 -45.815	1.00 11.06	C
ANISOU 3904 C GLY B 70	1479 1333 1391 -67 -24 -51		C
ATOM 3905 O GLY B 70	-14.974 -14.765 -44.931	1.00 11.65	O
ANISOU 3905 O GLY B 70	1554 1398 1476 -28 -45 -35		O
ATOM 3906 H GLY B 70	-16.604 -13.784 -43.573	1.00 11.81	H
ATOM 3907 HA2 GLY B 70	-17.772 -14.239 -45.942	1.00 10.97	H
ATOM 3908 HA3 GLY B 70	-17.085 -12.825 -45.809	1.00 10.97	H
ATOM 3909 N TRP B 71	-15.462 -14.421 -47.118	1.00 11.43	N
ANISOU 3909 N TRP B 71	1509 1393 1442 -74 -1 -80		N
ATOM 3910 CA TRP B 71	-14.265 -15.058 -47.638	1.00 13.04	C
ANISOU 3910 CA TRP B 71	1691 1594 1671 -37 11 -106		C
ATOM 3911 C TRP B 71	-13.654 -14.216 -48.743	1.00 13.31	C
ANISOU 3911 C TRP B 71	1683 1678 1694 -54 33 -127		C
ATOM 3912 O TRP B 71	-14.360 -13.547 -49.499	1.00 13.10	O
ANISOU 3912 O TRP B 71	1663 1677 1639 -93 45 -124		O
ATOM 3913 CB TRP B 71	-14.550 -16.436 -48.245	1.00 14.66	C
ANISOU 3913 CB TRP B 71	1930 1751 1890 -28 35 -136		C
ATOM 3914 CG TRP B 71	-14.994 -17.490 -47.305	1.00 16.25	C
ANISOU 3914 CG TRP B 71	2178 1886 2111 -12 26 -113		C
ATOM 3915 CD1 TRP B 71	-16.271 -17.732 -46.892	1.00 16.42	C
ANISOU 3915 CD1 TRP B 71	2239 1881 2120 -51 27 -96		C
ATOM 3916 CD2 TRP B 71	-14.178 -18.493 -46.700	1.00 16.81	C
ANISOU 3916 CD2 TRP B 71	2261 1905 2220 49 19 -101		C
ATOM 3917 NE1 TRP B 71	-16.296 -18.815 -46.061	1.00 15.87	N
ANISOU 3917 NE1 TRP B 71	2213 1743 2075 -27 27 -70		N
ATOM 3918 CE2 TRP B 71	-15.022 -19.299 -45.918	1.00 16.35	C
ANISOU 3918 CE2 TRP B 71	2262 1784 2167 40 18 -67		C
ATOM 3919 CE3 TRP B 71	-12.811 -18.779 -46.731	1.00 16.81	C
ANISOU 3919 CE3 TRP B 71	2224 1909 2253 114 13 -111		C
ATOM 3920 CZ2 TRP B 71	-14.547 -20.369 -45.172	1.00 17.84	C
ANISOU 3920 CZ2 TRP B 71	2485 1905 2390 95 10 -34		C
ATOM 3921 CZ3 TRP B 71	-12.340 -19.845 -45.993	1.00 18.06	C

ANISOU 3921	CZ3 TRP B 71	2407	2004	2449	177	0	-84	C
ATOM 3922	CH2 TRP B 71	-13.207	-20.626	-45.221	1.00	18.34		C
ANISOU 3922	CH2 TRP B 71	2514	1970	2486	169	-3	-41	C
ATOM 3923	H TRP B 71	-15.968	-14.092	-47.730	1.00	13.72		H
ATOM 3924	HA TRP B 71	-13.613	-15.159	-46.926	1.00	15.65		H
ATOM 3925	HB2 TRP B 71	-15.245	-16.335	-48.914	1.00	17.60		H
ATOM 3926	HB3 TRP B 71	-13.738	-16.753	-48.670	1.00	17.60		H
ATOM 3927	HD1 TRP B 71	-17.016	-17.238	-47.147	1.00	19.71		H
ATOM 3928	HE1 TRP B 71	-16.997	-19.133	-45.678	1.00	19.04		H
ATOM 3929	HE3 TRP B 71	-12.229	-18.262	-47.241	1.00	20.17		H
ATOM 3930	HZ2 TRP B 71	-15.120	-20.891	-44.659	1.00	21.41		H
ATOM 3931	HZ3 TRP B 71	-11.432	-20.044	-46.006	1.00	21.67		H
ATOM 3932	HH2 TRP B 71	-12.862	-21.339	-44.733	1.00	22.01		H
ATOM 3933	N THR B 72	-12.332	-14.296	-48.849	1.00	14.10		N
ANISOU 3933	N THR B 72	1741	1796	1821	-22	41	-144	N
ATOM 3934	CA THR B 72	-11.623	-13.989	-50.079	1.00	14.23		C
ANISOU 3934	CA THR B 72	1721	1855	1832	-33	80	-173	C
ATOM 3935	C THR B 72	-10.844	-15.217	-50.526	1.00	15.89		C
ANISOU 3935	C THR B 72	1919	2050	2071	15	105	-217	C
ATOM 3936	O THR B 72	-10.610	-16.151	-49.754	1.00	15.63		O
ANISOU 3936	O THR B 72	1896	1970	2073	64	85	-215	O
ATOM 3937	CB THR B 72	-10.643	-12.815	-49.920	1.00	13.34		C
ANISOU 3937	CB THR B 72	1550	1786	1731	-46	81	-163	C
ATOM 3938	OG1 THR B 72	-9.566	-13.200	-49.061	1.00	14.04		O
ANISOU 3938	OG1 THR B 72	1596	1877	1863	1	57	-172	O
ATOM 3939	CG2 THR B 72	-11.332	-11.586	-49.375	1.00	13.11		C
ANISOU 3939	CG2 THR B 72	1536	1758	1688	-87	58	-126	C
ATOM 3940	H THR B 72	-11.813	-14.532	-48.205	1.00	16.92		H
ATOM 3941	HA THR B 72	-12.264	-13.763	-50.772	1.00	17.08		H
ATOM 3942	HB THR B 72	-10.282	-12.590	-50.792	1.00	16.00		H
ATOM 3943	HG1 THR B 72	-9.864	-13.414	-48.305	1.00	16.85		H
ATOM 3944	HG21 THR B 72	-10.694	-10.861	-49.285	1.00	15.74		H
ATOM 3945	HG22 THR B 72	-12.041	-11.309	-49.977	1.00	15.74		H
ATOM 3946	HG23 THR B 72	-11.715	-11.779	-48.505	1.00	15.74		H
ATOM 3947	N ARG B 73	-10.471	-15.208	-51.801	1.00	16.34		N
ANISOU 3947	N ARG B 73	1957	2143	2108	1	153	-256	N
ATOM 3948	CA ARG B 73	-9.443	-16.074	-52.358	1.00	18.19		C
ANISOU 3948	CA ARG B 73	2157	2380	2373	46	190	-309	C
ATOM 3949	C ARG B 73	-8.251	-15.220	-52.772	1.00	17.36		C
ANISOU 3949	C ARG B 73	1977	2344	2273	38	220	-317	C
ATOM 3950	O ARG B 73	-8.358	-13.997	-52.917	1.00	16.21		O
ANISOU 3950	O ARG B 73	1822	2239	2100	-15	222	-284	O
ATOM 3951	CB ARG B 73	-9.970	-16.858	-53.567	1.00	18.67		C
ANISOU 3951	CB ARG B 73	2257	2435	2400	32	232	-364	C
ATOM 3952	CG ARG B 73	-11.085	-17.833	-53.253	1.00	19.23		C
ANISOU 3952	CG ARG B 73	2396	2434	2478	32	211	-370	C
ATOM 3953	CD ARG B 73	-11.427	-18.677	-54.491	1.00	20.43		C
ANISOU 3953	CD ARG B 73	2576	2584	2603	16	255	-446	C
ATOM 3954	NE ARG B 73	-12.325	-19.783	-54.168	1.00	22.27		N
ANISOU 3954	NE ARG B 73	2868	2733	2861	14	243	-465	N
ATOM 3955	CZ ARG B 73	-13.645	-19.783	-54.356	1.00	23.31		C
ANISOU 3955	CZ ARG B 73	3040	2862	2954	-44	226	-464	C
ATOM 3956	NH1 ARG B 73	-14.268	-18.738	-54.885	1.00	24.54		N

ANISOU 3956 NH1 ARG B 73	3188	3095	3041	-95	214	-441	N
ATOM 3957 NH2 ARG B 73	-14.348	-20.846	-54.019	1.00	24.18		N
ANISOU 3957 NH2 ARG B 73	3198	2890	3100	-50	223	-485	N
ATOM 3958 H ARG B 73	-10.818	-14.683	-52.387	1.00	19.61		H
ATOM 3959 HA ARG B 73	-9.151	-16.707	-51.683	1.00	21.82		H
ATOM 3960 HB2 ARG B 73	-10.307	-16.226	-54.221	1.00	22.40		H
ATOM 3961 HB3 ARG B 73	-9.236	-17.364	-53.950	1.00	22.40		H
ATOM 3962 HG2 ARG B 73	-10.803	-18.430	-52.543	1.00	23.08		H
ATOM 3963 HG3 ARG B 73	-11.879	-17.342	-52.988	1.00	23.08		H
ATOM 3964 HD2 ARG B 73	-11.864	-18.115	-55.150	1.00	24.52		H
ATOM 3965 HD3 ARG B 73	-10.610	-19.049	-54.859	1.00	24.52		H
ATOM 3966 HE ARG B 73	-11.975	-20.491	-53.828	1.00	26.73		H
ATOM 3967 HH11 ARG B 73	-13.820	-18.039	-55.109	1.00	29.45		H
ATOM 3968 HH12 ARG B 73	-15.120	-18.759	-55.000	1.00	29.45		H
ATOM 3969 HH21 ARG B 73	-13.956	-21.531	-53.678	1.00	29.02		H
ATOM 3970 HH22 ARG B 73	-15.200	-20.855	-54.141	1.00	29.02		H
ATOM 3971 N SER B 74	-7.104	-15.869	-52.930	1.00	19.18		N
ANISOU 3971 N SER B 74	2153	2586	2548	91	247	-361	N
ATOM 3972 CA SER B 74	-5.889	-15.211	-53.400	1.00	20.61		C
ANISOU 3972 CA SER B 74	2251	2839	2742	81	288	-380	C
ATOM 3973 C SER B 74	-5.439	-14.118	-52.435	1.00	19.35		C
ANISOU 3973 C SER B 74	2042	2704	2605	59	247	-337	C
ATOM 3974 O SER B 74	-5.327	-12.945	-52.822	1.00	18.92		O
ANISOU 3974 O SER B 74	1969	2691	2528	-6	271	-318	O
ATOM 3975 CB SER B 74	-6.106	-14.636	-54.804	1.00	22.53		C
ANISOU 3975 CB SER B 74	2506	3136	2917	17	352	-393	C
ATOM 3976 OG SER B 74	-6.323	-15.680	-55.736	1.00	25.54		O
ANISOU 3976 OG SER B 74	2919	3511	3275	38	394	-453	O
ATOM 3977 H SER B 74	-7.001	-16.708	-52.769	1.00	23.01		H
ATOM 3978 HA SER B 74	-5.178	-15.869	-53.456	1.00	24.74		H
ATOM 3979 HB2 SER B 74	-6.882	-14.054	-54.793	1.00	27.03		H
ATOM 3980 HB3 SER B 74	-5.318	-14.135	-55.067	1.00	27.03		H
ATOM 3981 HG SER B 74	-5.657	-16.192	-55.753	1.00	30.65		H
ATOM 3982 N PRO B 75	-5.136	-14.461	-51.175	1.00	18.66		N
ANISOU 3982 N PRO B 75	1935	2591	2563	111	185	-323	N
ATOM 3983 CA PRO B 75	-5.150	-15.812	-50.606	1.00	18.11		C
ANISOU 3983 CA PRO B 75	1889	2464	2529	194	155	-330	C
ATOM 3984 C PRO B 75	-6.511	-16.212	-50.037	1.00	17.26		C
ANISOU 3984 C PRO B 75	1880	2285	2393	187	118	-291	C
ATOM 3985 O PRO B 75	-7.395	-15.367	-49.887	1.00	16.98		O
ANISOU 3985 O PRO B 75	1884	2253	2315	125	105	-258	O
ATOM 3986 CB PRO B 75	-4.100	-15.734	-49.486	1.00	19.83		C
ANISOU 3986 CB PRO B 75	2030	2710	2796	246	101	-320	C
ATOM 3987 CG PRO B 75	-3.634	-14.294	-49.433	1.00	19.22		C
ANISOU 3987 CG PRO B 75	1891	2701	2709	175	103	-315	C
ATOM 3988 CD PRO B 75	-4.620	-13.484	-50.206	1.00	18.62		C
ANISOU 3988 CD PRO B 75	1878	2618	2578	90	141	-298	C
ATOM 3989 HA PRO B 75	-4.870	-16.464	-51.268	1.00	21.74		H
ATOM 3990 HB2 PRO B 75	-4.507	-15.990	-48.643	1.00	23.80		H
ATOM 3991 HB3 PRO B 75	-3.358	-16.323	-49.696	1.00	23.80		H
ATOM 3992 HG2 PRO B 75	-3.606	-13.999	-48.510	1.00	23.06		H
ATOM 3993 HG3 PRO B 75	-2.754	-14.227	-49.835	1.00	23.06		H
ATOM 3994 HD2 PRO B 75	-5.331	-13.169	-49.627	1.00	22.34		H

ATOM 3995	HD3 PRO B 75	-4.176 -12.752 -50.663 1.00 22.34	H
ATOM 3996	N LEU B 76	-6.670 -17.495 -49.722 1.00 16.65	N
ANISOU 3996	N LEU B 76	1841 2140 2344 249 107 -295	N
ATOM 3997	CA LEU B 76	-7.899 -17.983 -49.106 1.00 16.13	C
ANISOU 3997	CA LEU B 76	1865 2004 2260 240 78 -257	C
ATOM 3998	C LEU B 76	-7.933 -17.564 -47.637 1.00 15.96	C
ANISOU 3998	C LEU B 76	1844 1986 2233 251 12 -197	C
ATOM 3999	O LEU B 76	-7.152 -18.062 -46.821 1.00 16.73	O
ANISOU 3999	O LEU B 76	1914 2077 2365 321 -26 -179	O
ATOM 4000	CB LEU B 76	-7.983 -19.497 -49.242 1.00 16.67	C
ANISOU 4000	CB LEU B 76	1977 1988 2370 298 95 -279	C
ATOM 4001	CG LEU B 76	-9.224 -20.170 -48.669 1.00 16.57	C
ANISOU 4001	CG LEU B 76	2057 1892 2348 282 78 -243	C
ATOM 4002	CD1 LEU B 76	-10.465 -19.768 -49.448 1.00 15.12	C
ANISOU 4002	CD1 LEU B 76	1915 1718 2111 194 103 -261	C
ATOM 4003	CD2 LEU B 76	-9.046 -21.692 -48.649 1.00 18.01	C
ANISOU 4003	CD2 LEU B 76	2278 1975 2591 350 93 -259	C
ATOM 4004	H LEU B 76	-6.079 -18.105 -49.857 1.00 19.98	H
ATOM 4005	HA LEU B 76	-8.664 -17.591 -49.555 1.00 19.36	H
ATOM 4006	HB2 LEU B 76	-7.947 -19.718 -50.186 1.00 20.01	H
ATOM 4007	HB3 LEU B 76	-7.214 -19.884 -48.794 1.00 20.01	H
ATOM 4008	HG LEU B 76	-9.343 -19.875 -47.752 1.00 19.89	H
ATOM 4009	HD11 LEU B 76	-11.237 -20.210 -49.061 1.00 18.14	H
ATOM 4010	HD12 LEU B 76	-10.574 -18.805 -49.394 1.00 18.14	H
ATOM 4011	HD13 LEU B 76	-10.358 -20.038 -50.373 1.00 18.14	H
ATOM 4012	HD21 LEU B 76	-9.846 -22.099 -48.282 1.00 21.62	H
ATOM 4013	HD22 LEU B 76	-8.903 -22.004 -49.557 1.00 21.62	H
ATOM 4014	HD23 LEU B 76	-8.278 -21.913 -48.098 1.00 21.62	H
ATOM 4015	N ILE B 77	-8.834 -16.646 -47.299 1.00 15.13	N
ANISOU 4015	N ILE B 77	1769 1896 2083 186 -4 -167	N
ATOM 4016	CA ILE B 77	-8.964 -16.127 -45.940 1.00 14.83	C
ANISOU 4016	CA ILE B 77	1737 1871 2027 185 -60 -122	C
ATOM 4017	C ILE B 77	-10.439 -16.073 -45.580 1.00 14.50	C
ANISOU 4017	C ILE B 77	1772 1792 1946 140 -61 -91	C
ATOM 4018	O ILE B 77	-11.256 -15.582 -46.364 1.00 14.60	O
ANISOU 4018	O ILE B 77	1803 1808 1936 84 -31 -104	O
ATOM 4019	CB ILE B 77	-8.346 -14.723 -45.788 1.00 15.45	C
ANISOU 4019	CB ILE B 77	1750 2022 2097 147 -73 -131	C
ATOM 4020	CG1 ILE B 77	-6.852 -14.764 -46.112 1.00 17.24	C
ANISOU 4020	CG1 ILE B 77	1886 2297 2369 185 -68 -166	C
ATOM 4021	CG2 ILE B 77	-8.571 -14.197 -44.359 1.00 16.24	C
ANISOU 4021	CG2 ILE B 77	1863 2137 2171 142 -130 -98	C
ATOM 4022	CD1 ILE B 77	-6.203 -13.389 -46.234 1.00 18.59	C
ANISOU 4022	CD1 ILE B 77	1987 2535 2542 129 -63 -186	C
ATOM 4023	H ILE B 77	-9.394 -16.300 -47.852 1.00 18.15	H
ATOM 4024	HA ILE B 77	-8.518 -16.727 -45.321 1.00 17.80	H
ATOM 4025	HB ILE B 77	-8.782 -14.123 -46.413 1.00 18.54	H
ATOM 4026	HG12 ILE B 77	-6.393 -15.246 -45.406 1.00 20.69	H
ATOM 4027	HG13 ILE B 77	-6.728 -15.225 -46.956 1.00 20.69	H
ATOM 4028	HG21 ILE B 77	-8.176 -13.314 -44.282 1.00 19.49	H
ATOM 4029	HG22 ILE B 77	-9.524 -14.150 -44.186 1.00 19.49	H
ATOM 4030	HG23 ILE B 77	-8.150 -14.804 -43.730 1.00 19.49	H
ATOM 4031	HD11 ILE B 77	-5.262 -13.501 -46.439 1.00 22.31	H

ATOM 4032	HD12 ILE B 77	-6.641 -12.896 -46.946	1.00 22.31	H
ATOM 4033	HD13 ILE B 77	-6.305 -12.917 -45.393	1.00 22.31	H
ATOM 4034	N ALA B 78	-10.772 -16.539 -44.382	1.00 12.83	N
ANISOU 4034	N ALA B 78	1601 1552 1723	165 -97 -47	N
ATOM 4035	CA ALA B 78	-12.084 -16.326 -43.793	1.00 11.78	C
ANISOU 4035	CA ALA B 78	1527 1400 1550	120 -99 -17	C
ATOM 4036	C ALA B 78	-11.986 -15.151 -42.836	1.00 11.63	C
ANISOU 4036	C ALA B 78	1485 1437 1498	99 -135 -5	C
ATOM 4037	O ALA B 78	-11.026 -15.051 -42.067	1.00 11.88	O
ANISOU 4037	O ALA B 78	1482 1504 1529	138 -177 3	O
ATOM 4038	CB ALA B 78	-12.565 -17.569 -43.043	1.00 12.20	C
ANISOU 4038	CB ALA B 78	1645 1386 1604	150 -105 26	C
ATOM 4039	H ALA B 78	-10.240 -16.992 -43.880	1.00 15.40	H
ATOM 4040	HA ALA B 78	-12.726 -16.112 -44.488	1.00 14.14	H
ATOM 4041	HB1 ALA B 78	-13.440 -17.391 -42.665	1.00 14.64	H
ATOM 4042	HB2 ALA B 78	-12.617 -18.312 -43.664	1.00 14.64	H
ATOM 4043	HB3 ALA B 78	-11.934 -17.774 -42.335	1.00 14.64	H
ATOM 4044	N TYR B 79	-12.971 -14.264 -42.875	1.00 11.66	N
ANISOU 4044	N TYR B 79	1505 1452 1475	42 -121 -9	N
ATOM 4045	CA TYR B 79	-12.980 -13.131 -41.961	1.00 12.10	C
ANISOU 4045	CA TYR B 79	1546 1550 1503	20 -147 -9	C
ATOM 4046	C TYR B 79	-14.300 -13.076 -41.207	1.00 11.87	C
ANISOU 4046	C TYR B 79	1569 1505 1435	-7 -140 14	C
ATOM 4047	O TYR B 79	-15.340 -13.537 -41.693	1.00 11.61	O
ANISOU 4047	O TYR B 79	1570 1438 1404	-28 -109 21	O
ATOM 4048	CB TYR B 79	-12.713 -11.801 -42.687	1.00 12.02	C
ANISOU 4048	CB TYR B 79	1489 1568 1508	-20 -132 -42	C
ATOM 4049	CG TYR B 79	-13.741 -11.401 -43.713	1.00 11.52	C
ANISOU 4049	CG TYR B 79	1446 1486 1446	-60 -93 -45	C
ATOM 4050	CD1 TYR B 79	-14.924 -10.789 -43.335	1.00 11.06	C
ANISOU 4050	CD1 TYR B 79	1415 1420 1367	-89 -88 -37	C
ATOM 4051	CD2 TYR B 79	-13.510 -11.601 -45.064	1.00 12.31	C
ANISOU 4051	CD2 TYR B 79	1530 1583 1562	-65 -63 -58	C
ATOM 4052	CE1 TYR B 79	-15.859 -10.409 -44.272	1.00 11.58	C
ANISOU 4052	CE1 TYR B 79	1490 1477 1434	-116 -61 -36	C
ATOM 4053	CE2 TYR B 79	-14.436 -11.228 -46.013	1.00 10.84	C
ANISOU 4053	CE2 TYR B 79	1361 1393 1366	-97 -36 -57	C
ATOM 4054	CZ TYR B 79	-15.610 -10.628 -45.612	1.00 10.61	C
ANISOU 4054	CZ TYR B 79	1355 1356 1320	-120 -40 -43	C
ATOM 4055	OH TYR B 79	-16.545 -10.260 -46.547	1.00 10.96	O
ANISOU 4055	OH TYR B 79	1407 1402 1353	-144 -23 -37	O
ATOM 4056	H TYR B 79	-13.640 -14.294 -43.415	1.00 14.00	H
ATOM 4057	HA TYR B 79	-12.274 -13.255 -41.308	1.00 14.52	H
ATOM 4058	HB2 TYR B 79	-12.673 -11.094 -42.024	1.00 14.42	H
ATOM 4059	HB3 TYR B 79	-11.859 -11.866 -43.142	1.00 14.42	H
ATOM 4060	HD1 TYR B 79	-15.094 -10.640 -42.433	1.00 13.27	H
ATOM 4061	HD2 TYR B 79	-12.718 -12.006 -45.336	1.00 14.77	H
ATOM 4062	HE1 TYR B 79	-16.654 -10.007 -44.003	1.00 13.90	H
ATOM 4063	HE2 TYR B 79	-14.270 -11.377 -46.915	1.00 13.01	H
ATOM 4064	HH TYR B 79	-16.270 -10.448 -47.318	1.00 13.15	H
ATOM 4065	N TYR B 80	-14.232 -12.495 -40.011	1.00 12.28	N
ANISOU 4065	N TYR B 80	1622 1592 1450	-8 -169 17	N
ATOM 4066	CA TYR B 80	-15.334 -12.465 -39.057	1.00 12.09	C

ANISOU 4066	CA	TYR B 80	1645	1567	1381	-28	-161	36	C
ATOM 4067	C	TYR B 80	-15.353	-11.125	-38.325	1.00	12.97		C
ANISOU 4067	C	TYR B 80	1738	1724	1467	-53	-174	3	C
ATOM 4068	O	TYR B 80	-14.315	-10.675	-37.829	1.00	14.02		O
ANISOU 4068	O	TYR B 80	1837	1897	1591	-41	-213	-18	O
ATOM 4069	CB	TYR B 80	-15.195	-13.588	-38.019	1.00	13.64		C
ANISOU 4069	CB	TYR B 80	1885	1758	1539	9	-182	87	C
ATOM 4070	CG	TYR B 80	-14.901	-14.966	-38.587	1.00	13.85		C
ANISOU 4070	CG	TYR B 80	1933	1728	1602	46	-175	118	C
ATOM 4071	CD1	TYR B 80	-13.615	-15.322	-38.974	1.00	15.00		C
ANISOU 4071	CD1	TYR B 80	2040	1877	1784	97	-203	112	C
ATOM 4072	CD2	TYR B 80	-15.905	-15.911	-38.711	1.00	14.64		C
ANISOU 4072	CD2	TYR B 80	2087	1769	1706	29	-136	147	C
ATOM 4073	CE1	TYR B 80	-13.345	-16.581	-39.490	1.00	15.85		C
ANISOU 4073	CE1	TYR B 80	2167	1923	1931	137	-191	132	C
ATOM 4074	CE2	TYR B 80	-15.646	-17.167	-39.222	1.00	16.35		C
ANISOU 4074	CE2	TYR B 80	2327	1920	1963	60	-125	167	C
ATOM 4075	CZ	TYR B 80	-14.362	-17.498	-39.604	1.00	16.49		C
ANISOU 4075	CZ	TYR B 80	2311	1936	2018	118	-152	159	C
ATOM 4076	OH	TYR B 80	-14.098	-18.748	-40.112	1.00	17.58		O
ANISOU 4076	OH	TYR B 80	2475	2001	2204	156	-136	171	O
ATOM 4077	H	TYR B 80	-13.527	-12.097	-39.720	1.00	14.73		H
ATOM 4078	HA	TYR B 80	-16.175	-12.576	-39.526	1.00	14.51		H
ATOM 4079	HB2	TYR B 80	-14.471	-13.361	-37.416	1.00	16.37		H
ATOM 4080	HB3	TYR B 80	-16.025	-13.649	-37.521	1.00	16.37		H
ATOM 4081	HD1	TYR B 80	-12.926	-14.702	-38.896	1.00	18.01		H
ATOM 4082	HD2	TYR B 80	-16.772	-15.693	-38.454	1.00	17.57		H
ATOM 4083	HE1	TYR B 80	-12.480	-16.806	-39.748	1.00	19.02		H
ATOM 4084	HE2	TYR B 80	-16.332	-17.790	-39.302	1.00	19.62		H
ATOM 4085	HH	TYR B 80	-14.801	-19.207	-40.127	1.00	21.10		H
ATOM 4086	N	VAL B 81	-16.526	-10.499	-38.233	1.00	11.64		N
ANISOU 4086	N	VAL B 81	1586	1549	1288	-87	-143	-10	N
ATOM 4087	CA	VAL B 81	-16.766	-9.408	-37.289	1.00	10.09		C
ANISOU 4087	CA	VAL B 81	1387	1386	1061	-107	-147	-44	C
ATOM 4088	C	VAL B 81	-17.837	-9.906	-36.329	1.00	10.41		C
ANISOU 4088	C	VAL B 81	1475	1435	1046	-113	-125	-21	C
ATOM 4089	O	VAL B 81	-19.019	-9.978	-36.679	1.00	11.02		O
ANISOU 4089	O	VAL B 81	1563	1489	1136	-132	-83	-15	O
ATOM 4090	CB	VAL B 81	-17.188	-8.101	-37.974	1.00	11.67		C
ANISOU 4090	CB	VAL B 81	1561	1567	1304	-135	-122	-83	C
ATOM 4091	CG1	VAL B 81	-17.430	-7.019	-36.947	1.00	13.76		C
ANISOU 4091	CG1	VAL B 81	1828	1855	1544	-152	-122	-129	C
ATOM 4092	CG2	VAL B 81	-16.115	-7.660	-38.967	1.00	12.15		C
ANISOU 4092	CG2	VAL B 81	1581	1620	1417	-138	-134	-96	C
ATOM 4093	H	VAL B 81	-17.211	-10.693	-38.715	1.00	13.97		H
ATOM 4094	HA	VAL B 81	-15.956	-9.238	-36.782	1.00	12.11		H
ATOM 4095	HB	VAL B 81	-18.013	-8.248	-38.462	1.00	14.00		H
ATOM 4096	HG11	VAL B 81	-17.695	-6.205	-37.403	1.00	16.51		H
ATOM 4097	HG12	VAL B 81	-18.135	-7.306	-36.346	1.00	16.51		H
ATOM 4098	HG13	VAL B 81	-16.612	-6.868	-36.448	1.00	16.51		H
ATOM 4099	HG21	VAL B 81	-16.398	-6.834	-39.390	1.00	14.58		H
ATOM 4100	HG22	VAL B 81	-15.282	-7.519	-38.490	1.00	14.58		H
ATOM 4101	HG23	VAL B 81	-16.001	-8.352	-39.637	1.00	14.58		H

ATOM 4102 N VAL B 82	-17.422 -10.269 -35.124 1.00 10.70	N
ANISOU 4102 N VAL B 82	1536 1512 1018 -96 -153 -5	N
ATOM 4103 CA VAL B 82	-18.283 -10.940 -34.158 1.00 10.43	C
ANISOU 4103 CA VAL B 82	1554 1490 920 -102 -129 32	C
ATOM 4104 C VAL B 82	-18.867 -9.902 -33.211 1.00 10.50	C
ANISOU 4104 C VAL B 82	1566 1545 880 -127 -112 -17	C
ATOM 4105 O VAL B 82	-18.132 -9.278 -32.436 1.00 10.94	O
ANISOU 4105 O VAL B 82	1612 1651 892 -122 -150 -54	O
ATOM 4106 CB VAL B 82	-17.506 -12.008 -33.375 1.00 11.55	C
ANISOU 4106 CB VAL B 82	1731 1651 1008 -64 -170 91	C
ATOM 4107 CG1 VAL B 82	-18.431 -12.735 -32.416 1.00 12.98	C
ANISOU 4107 CG1 VAL B 82	1974 1838 1118 -76 -135 143	C
ATOM 4108 CG2 VAL B 82	-16.798 -12.986 -34.333 1.00 11.89	C
ANISOU 4108 CG2 VAL B 82	1765 1640 1112 -29 -187 128	C
ATOM 4109 H VAL B 82	-16.624 -10.133 -34.833 1.00 12.84	H
ATOM 4110 HA VAL B 82	-19.014 -11.375 -34.625 1.00 12.52	H
ATOM 4111 HB VAL B 82	-16.822 -11.567 -32.847 1.00 13.87	H
ATOM 4112 HG11 VAL B 82	-17.921 -13.403 -31.933 1.00 15.57	H
ATOM 4113 HG12 VAL B 82	-18.809 -12.093 -31.795 1.00 15.57	H
ATOM 4114 HG13 VAL B 82	-19.139 -13.161 -32.924 1.00 15.57	H
ATOM 4115 HG21 VAL B 82	-16.317 -13.647 -33.811 1.00 14.27	H
ATOM 4116 HG22 VAL B 82	-17.465 -13.423 -34.887 1.00 14.27	H
ATOM 4117 HG23 VAL B 82	-16.179 -12.489 -34.891 1.00 14.27	H
ATOM 4118 N ASP B 83	-20.193 -9.741 -33.243 1.00 10.93	N
ANISOU 4118 N ASP B 83	1628 1587 938 -153 -54 -25	N
ATOM 4119 CA ASP B 83	-20.887 -8.826 -32.345 1.00 12.05	C
ANISOU 4119 CA ASP B 83	1772 1769 1037 -173 -24 -77	C
ATOM 4120 C ASP B 83	-21.414 -9.499 -31.080 1.00 12.34	C
ANISOU 4120 C ASP B 83	1859 1854 976 -182 2 -44	C
ATOM 4121 O ASP B 83	-21.480 -8.852 -30.026 1.00 13.43	O
ANISOU 4121 O ASP B 83	2008 2049 1045 -189 8 -89	O
ATOM 4122 CB ASP B 83	-22.043 -8.151 -33.091 1.00 12.59	C
ANISOU 4122 CB ASP B 83	1807 1804 1171 -189 26 -111	C
ATOM 4123 CG ASP B 83	-21.608 -6.872 -33.803 1.00 12.99	C
ANISOU 4123 CG ASP B 83	1818 1828 1290 -183 9 -165	C
ATOM 4124 OD1 ASP B 83	-20.451 -6.461 -33.606 1.00 14.51	O
ANISOU 4124 OD1 ASP B 83	2004 2032 1476 -178 -35 -189	O
ATOM 4125 OD2 ASP B 83	-22.420 -6.286 -34.544 1.00 12.90	O
ANISOU 4125 OD2 ASP B 83	1779 1784 1339 -184 39 -182	O
ATOM 4126 H ASP B 83	-20.715 -10.157 -33.785 1.00 13.12	H
ATOM 4127 HA ASP B 83	-20.268 -8.132 -32.072 1.00 14.46	H
ATOM 4128 HB2 ASP B 83	-22.391 -8.763 -33.757 1.00 15.10	H
ATOM 4129 HB3 ASP B 83	-22.738 -7.920 -32.455 1.00 15.10	H
ATOM 4130 N SER B 84	-21.775 -10.779 -31.139 1.00 12.85	N
ANISOU 4130 N SER B 84	1959 1894 1030 -185 22 32	N
ATOM 4131 CA SER B 84	-22.204 -11.484 -29.942 1.00 14.62	C
ANISOU 4131 CA SER B 84	2240 2158 1157 -197 50 80	C
ATOM 4132 C SER B 84	-21.945 -12.976 -30.104 1.00 15.22	C
ANISOU 4132 C SER B 84	2362 2187 1234 -185 42 177	C
ATOM 4133 O SER B 84	-21.632 -13.466 -31.189 1.00 13.96	O
ANISOU 4133 O SER B 84	2186 1962 1156 -172 26 193	O
ATOM 4134 CB SER B 84	-23.677 -11.232 -29.629 1.00 14.98	C
ANISOU 4134 CB SER B 84	2280 2221 1191 -238 133 55	C

ATOM 4135	OG SER B 84	-24.007 -11.773 -28.350	1.00 16.39	O
ANISOU 4135	OG SER B 84	2516 2453 1259 -255 166 98		O
ATOM 4136	H SER B 84	-21.779 -11.255 -31.855	1.00 15.42	H
ATOM 4137	HA SER B 84	-21.681 -11.170 -29.188	1.00 17.54	H
ATOM 4138	HB2 SER B 84	-23.842 -10.277 -29.622	1.00 17.98	H
ATOM 4139	HB3 SER B 84	-24.223 -11.661 -30.306	1.00 17.98	H
ATOM 4140	HG SER B 84	-24.818 -11.633 -28.180	1.00 19.67	H
ATOM 4141	N TRP B 85	-22.095 -13.695 -28.997	1.00 16.46	N
ANISOU 4141	N TRP B 85	2581 2375 1297 -189 58 241		N
ATOM 4142	CA TRP B 85	-21.780 -15.114 -28.962	1.00 16.48	C
ANISOU 4142	CA TRP B 85	2642 2324 1295 -171 50 343		C
ATOM 4143	C TRP B 85	-22.406 -15.702 -27.705	1.00 17.66	C
ANISOU 4143	C TRP B 85	2863 2511 1336 -197 98 411		C
ATOM 4144	O TRP B 85	-22.911 -14.977 -26.842	1.00 18.99	O
ANISOU 4144	O TRP B 85	3031 2760 1424 -222 129 371		O
ATOM 4145	CB TRP B 85	-20.263 -15.336 -28.995	1.00 16.58	C
ANISOU 4145	CB TRP B 85	2654 2340 1306 -104 -42 368		C
ATOM 4146	CG TRP B 85	-19.550 -14.708 -27.835	1.00 18.10	C
ANISOU 4146	CG TRP B 85	2853 2634 1389 -80 -96 353		C
ATOM 4147	CD1 TRP B 85	-19.252 -15.300 -26.644	1.00 19.83	C
ANISOU 4147	CD1 TRP B 85	3136 2905 1493 -56 -120 429		C
ATOM 4148	CD2 TRP B 85	-19.051 -13.367 -27.749	1.00 18.10	C
ANISOU 4148	CD2 TRP B 85	2796 2700 1382 -80 -135 253		C
ATOM 4149	NE1 TRP B 85	-18.595 -14.419 -25.824	1.00 20.16	N
ANISOU 4149	NE1 TRP B 85	3159 3052 1448 -42 -176 376		N
ATOM 4150	CE2 TRP B 85	-18.457 -13.225 -26.476	1.00 19.33	C
ANISOU 4150	CE2 TRP B 85	2979 2952 1413 -59 -184 263		C
ATOM 4151	CE3 TRP B 85	-19.042 -12.277 -28.624	1.00 17.13	C
ANISOU 4151	CE3 TRP B 85	2604 2560 1345 -97 -132 159		C
ATOM 4152	CZ2 TRP B 85	-17.865 -12.033 -26.054	1.00 19.38	C
ANISOU 4152	CZ2 TRP B 85	2942 3038 1384 -63 -230 168		C
ATOM 4153	CZ3 TRP B 85	-18.450 -11.097 -28.204	1.00 17.60	C
ANISOU 4153	CZ3 TRP B 85	2627 2686 1377 -99 -172 75		C
ATOM 4154	CH2 TRP B 85	-17.874 -10.984 -26.932	1.00 18.76	C
ANISOU 4154	CH2 TRP B 85	2798 2927 1404 -85 -220 73		C
ATOM 4155	H TRP B 85	-22.380 -13.380 -28.249	1.00 19.75	H
ATOM 4156	HA TRP B 85	-22.171 -15.551 -29.734	1.00 19.77	H
ATOM 4157	HB2 TRP B 85	-20.084 -16.290 -28.974	1.00 19.90	H
ATOM 4158	HB3 TRP B 85	-19.906 -14.950 -29.810	1.00 19.90	H
ATOM 4159	HD1 TRP B 85	-19.462 -16.178 -26.421	1.00 23.79	H
ATOM 4160	HE1 TRP B 85	-18.317 -14.589 -25.028	1.00 24.19	H
ATOM 4161	HE3 TRP B 85	-19.423 -12.343 -29.470	1.00 20.56	H
ATOM 4162	HZ2 TRP B 85	-17.479 -11.956 -25.211	1.00 23.26	H
ATOM 4163	HZ3 TRP B 85	-18.440 -10.364 -28.776	1.00 21.13	H
ATOM 4164	HH2 TRP B 85	-17.485 -10.178 -26.680	1.00 22.52	H
ATOM 4165	N GLY B 86	-22.378 -17.028 -27.615	1.00 21.40	N
ANISOU 4165	N GLY B 86	2744 2653 2735 -228 492 946		N
ATOM 4166	CA GLY B 86	-22.877 -17.694 -26.429	1.00 23.54	C
ANISOU 4166	CA GLY B 86	2902 3002 3041 -231 554 1294		C
ATOM 4167	C GLY B 86	-21.773 -17.873 -25.416	1.00 24.64	C
ANISOU 4167	C GLY B 86	3089 3204 3067 -152 544 1423		C
ATOM 4168	O GLY B 86	-21.509 -16.984 -24.601	1.00 24.56	O
ANISOU 4168	O GLY B 86	3156 3440 2735 -35 589 1421		O

ATOM 4169	H	GLY B 86	-22.078 -17.557 -28.223	1.00	25.68	H
ATOM 4170	HA2	GLY B 86	-23.587 -17.166 -26.029	1.00	28.25	H
ATOM 4171	HA3	GLY B 86	-23.231 -18.566 -26.665	1.00	28.25	H
ATOM 4172	N	THR B 87	-21.114 -19.023 -25.465	1.00	26.31	N
ANISOU 4172	N	THR B 87	3249 3191 3558 -208 467 1519			N
ATOM 4173	CA	THR B 87	-19.937 -19.296 -24.653	1.00	29.55	C
ANISOU 4173	CA	THR B 87	3702 3623 3905 -142 434 1627			C
ATOM 4174	C	THR B 87	-18.781 -19.543 -25.608	1.00	30.08	C
ANISOU 4174	C	THR B 87	3848 3448 4132 -160 322 1361			C
ATOM 4175	O	THR B 87	-18.760 -20.560 -26.311	1.00	31.66	O
ANISOU 4175	O	THR B 87	3968 3379 4683 -241 244 1329			O
ATOM 4176	CB	THR B 87	-20.172 -20.494 -23.737	1.00	32.65	C
ANISOU 4176	CB	THR B 87	3929 3978 4499 -179 448 2040			C
ATOM 4177	OG1	THR B 87	-21.282 -20.212 -22.876	1.00	34.38	O
ANISOU 4177	OG1	THR B 87	4055 4478 4531 -140 556 2243			O
ATOM 4178	CG2	THR B 87	-18.930 -20.797 -22.901	1.00	33.49	C
ANISOU 4178	CG2	THR B 87	4072 4116 4536 -105 406 2164			C
ATOM 4179	H	THR B 87	-21.336 -19.679 -25.975	1.00	31.58	H
ATOM 4180	HA	THR B 87	-19.730 -18.522 -24.106	1.00	35.47	H
ATOM 4181	HB	THR B 87	-20.374 -21.274 -24.276	1.00	39.18	H
ATOM 4182	HG1	THR B 87	-21.972 -20.070 -23.334	1.00	41.26	H
ATOM 4183	HG21	THR B 87	-19.096 -21.560 -22.326	1.00	40.18	H
ATOM 4184	HG22	THR B 87	-18.180 -20.998 -23.483	1.00	40.18	H
ATOM 4185	HG23	THR B 87	-18.706 -20.030 -22.351	1.00	40.18	H
ATOM 4186	N	ALA B 88	-17.831 -18.616 -25.636	1.00	28.98	N
ANISOU 4186	N	ALA B 88	3848 3408 3754 -76 304 1165			N
ATOM 4187	CA	ALA B 88	-16.714 -18.707 -26.560	1.00	29.53	C
ANISOU 4187	CA	ALA B 88	3981 3305 3934 -77 215 921			C
ATOM 4188	C	ALA B 88	-15.578 -17.852 -26.031	1.00	29.39	C
ANISOU 4188	C	ALA B 88	4078 3421 3669 21 195 854			C
ATOM 4189	O	ALA B 88	-15.814 -16.772 -25.482	1.00	30.35	O
ANISOU 4189	O	ALA B 88	4259 3756 3516 86 236 834			O
ATOM 4190	CB	ALA B 88	-17.108 -18.251 -27.971	1.00	28.21	C
ANISOU 4190	CB	ALA B 88	3833 3087 3799 -113 205 639			C
ATOM 4191	H	ALA B 88	-17.813 -17.923 -25.128	1.00	34.77	H
ATOM 4192	HA	ALA B 88	-16.409 -19.627 -26.609	1.00	35.44	H
ATOM 4193	HB1	ALA B 88	-16.336 -18.327 -28.554	1.00	33.85	H
ATOM 4194	HB2	ALA B 88	-17.826 -18.816 -28.296	1.00	33.85	H
ATOM 4195	HB3	ALA B 88	-17.403 -17.328 -27.932	1.00	33.85	H
ATOM 4196	N	ARG B 89	-14.352 -18.343 -26.205	1.00	28.37	N
ANISOU 4196	N	ARG B 89	3965 3154 3660 36 119 803			N
ATOM 4197	CA	ARG B 89	-13.146 -17.618 -25.834	1.00	27.70	C
ANISOU 4197	CA	ARG B 89	3971 3154 3400 117 76 726			C
ATOM 4198	C	ARG B 89	-12.192 -17.616 -27.015	1.00	26.94	C
ANISOU 4198	C	ARG B 89	3893 2919 3425 111 18 498			C
ATOM 4199	O	ARG B 89	-11.983 -18.656 -27.649	1.00	28.71	O
ANISOU 4199	O	ARG B 89	4053 2956 3900 77 -18 463			O
ATOM 4200	CB	ARG B 89	-12.477 -18.251 -24.615	1.00	29.15	C
ANISOU 4200	CB	ARG B 89	4133 3362 3579 163 44 958			C
ATOM 4201	CG	ARG B 89	-13.388 -18.313 -23.425	1.00	30.79	C
ANISOU 4201	CG	ARG B 89	4294 3768 3638 191 111 1220			C
ATOM 4202	CD	ARG B 89	-12.660 -18.751 -22.180	1.00	30.95	C
ANISOU 4202	CD	ARG B 89	4292 3886 3581 263 78 1452			C

ATOM 4203 NE ARG B 89	-13.518 -18.580 -21.009 1.00 33.04	N
ANISOU 4203 NE ARG B 89	4506 4439 3606 327 155 1688	N
ATOM 4204 CZ ARG B 89	-13.333 -17.683 -20.045 1.00 33.53	C
ANISOU 4204 CZ ARG B 89	4625 4799 3317 460 151 1665	C
ATOM 4205 NH1 ARG B 89	-12.295 -16.857 -20.069 1.00 31.72	N
ANISOU 4205 NH1 ARG B 89	4503 4583 2967 526 58 1426	N
ATOM 4206 NH2 ARG B 89	-14.193 -17.623 -19.037 1.00 36.55	N
ANISOU 4206 NH2 ARG B 89	4926 5430 3530 505 219 1781	N
ATOM 4207 H ARG B 89	-14.193 -19.116 -26.547 1.00 34.04	H
ATOM 4208 HA ARG B 89	-13.372 -16.700 -25.618 1.00 33.24	H
ATOM 4209 HB2 ARG B 89	-12.210 -19.157 -24.835 1.00 34.97	H
ATOM 4210 HB3 ARG B 89	-11.700 -17.725 -24.371 1.00 34.97	H
ATOM 4211 HG2 ARG B 89	-13.761 -17.432 -23.263 1.00 36.95	H
ATOM 4212 HG3 ARG B 89	-14.098 -18.949 -23.600 1.00 36.95	H
ATOM 4213 HD2 ARG B 89	-12.424 -19.689 -22.255 1.00 37.14	H
ATOM 4214 HD3 ARG B 89	-11.865 -18.208 -22.061 1.00 37.14	H
ATOM 4215 HE ARG B 89	-14.199 -19.101 -20.939 1.00 39.64	H
ATOM 4216 HH11 ARG B 89	-11.734 -16.889 -20.720 1.00 38.07	H
ATOM 4217 HH12 ARG B 89	-12.186 -16.284 -19.436 1.00 38.07	H
ATOM 4218 HH21 ARG B 89	-14.866 -18.158 -19.013 1.00 43.86	H
ATOM 4219 HH22 ARG B 89	-14.076 -17.051 -18.406 1.00 43.86	H
ATOM 4220 N TRP B 90	-11.630 -16.451 -27.320 1.00 24.08	N
ANISOU 4220 N TRP B 90	3598 2652 2899 153 4 345	N
ATOM 4221 CA TRP B 90	-10.718 -16.310 -28.444 1.00 23.43	C
ANISOU 4221 CA TRP B 90	3510 2500 2893 160 -33 163	C
ATOM 4222 C TRP B 90	-9.274 -16.374 -27.970 1.00 23.55	C
ANISOU 4222 C TRP B 90	3542 2486 2920 214 -102 191	C
ATOM 4223 O TRP B 90	-8.874 -15.649 -27.048 1.00 24.36	O
ANISOU 4223 O TRP B 90	3695 2687 2872 258 -134 246	O
ATOM 4224 CB TRP B 90	-10.989 -15.010 -29.199 1.00 22.34	C
ANISOU 4224 CB TRP B 90	3396 2475 2619 161 -8 24	C
ATOM 4225 CG TRP B 90	-12.136 -15.191 -30.150 1.00 21.63	C
ANISOU 4225 CG TRP B 90	3262 2381 2574 110 44 -52	C
ATOM 4226 CD1 TRP B 90	-12.063 -15.512 -31.471 1.00 21.45	C
ANISOU 4226 CD1 TRP B 90	3183 2326 2641 102 41 -202	C
ATOM 4227 CD2 TRP B 90	-13.532 -15.111 -29.832 1.00 21.62	C
ANISOU 4227 CD2 TRP B 90	3256 2429 2528 71 99 14	C
ATOM 4228 NE1 TRP B 90	-13.327 -15.629 -32.000 1.00 21.56	N
ANISOU 4228 NE1 TRP B 90	3163 2355 2674 56 77 -244	N
ATOM 4229 CE2 TRP B 90	-14.246 -15.392 -31.012 1.00 21.20	C
ANISOU 4229 CE2 TRP B 90	3147 2347 2562 28 116 -103	C
ATOM 4230 CE3 TRP B 90	-14.244 -14.825 -28.664 1.00 21.81	C
ANISOU 4230 CE3 TRP B 90	3306 2548 2432 83 135 158	C
ATOM 4231 CZ2 TRP B 90	-15.637 -15.392 -31.060 1.00 21.52	C
ANISOU 4231 CZ2 TRP B 90	3157 2418 2601 -20 162 -70	C
ATOM 4232 CZ3 TRP B 90	-15.624 -14.822 -28.713 1.00 22.08	C
ANISOU 4232 CZ3 TRP B 90	3305 2631 2455 42 197 200	C
ATOM 4233 CH2 TRP B 90	-16.307 -15.100 -29.904 1.00 21.98	C
ANISOU 4233 CH2 TRP B 90	3237 2556 2558 -17 208 92	C
ATOM 4234 H TRP B 90	-11.762 -15.722 -26.885 1.00 28.90	H
ATOM 4235 HA TRP B 90	-10.863 -17.046 -29.059 1.00 28.12	H
ATOM 4236 HB2 TRP B 90	-11.219 -14.310 -28.567 1.00 26.81	H
ATOM 4237 HB3 TRP B 90	-10.202 -14.762 -29.709 1.00 26.81	H

ATOM 4238	HD1 TRP B 90	-11.273 -15.642 -31.944	1.00 25.74	H
ATOM 4239	HE1 TRP B 90	-13.511 -15.824 -32.817	1.00 25.87	H
ATOM 4240	HE3 TRP B 90	-13.798 -14.644 -27.868	1.00 26.17	H
ATOM 4241	HZ2 TRP B 90	-16.093 -15.567 -31.852	1.00 25.82	H
ATOM 4242	HZ3 TRP B 90	-16.108 -14.636 -27.941	1.00 26.50	H
ATOM 4243	HH2 TRP B 90	-17.237 -15.091 -29.907	1.00 26.38	H
ATOM 4244	N THR B 91	-8.515 -17.268 -28.587	1.00 23.00	N
ANISOU 4244	N THR B 91	3420 2281 3037	220 -135 136	N
ATOM 4245	CA THR B 91	-7.087 -17.411 -28.379	1.00 23.52	C
ANISOU 4245	CA THR B 91	3481 2306 3149	272 -199 142	C
ATOM 4246	C THR B 91	-6.416 -17.305 -29.736	1.00 21.95	C
ANISOU 4246	C THR B 91	3230 2099 3010	297 -198 -42	C
ATOM 4247	O THR B 91	-6.874 -17.913 -30.707	1.00 23.91	O
ANISOU 4247	O THR B 91	3425 2299 3363	289 -176 -163	O
ATOM 4248	CB THR B 91	-6.744 -18.769 -27.729	1.00 25.70	C
ANISOU 4248	CB THR B 91	3715 2431 3618	279 -243 282	C
ATOM 4249	OG1 THR B 91	-7.153 -18.775 -26.360	1.00 26.40	O
ANISOU 4249	OG1 THR B 91	3834 2593 3604	278 -241 501	O
ATOM 4250	CG2 THR B 91	-5.238 -19.073 -27.798	1.00 26.37	C
ANISOU 4250	CG2 THR B 91	3774 2449 3798	337 -310 253	C
ATOM 4251	H THR B 91	-8.825 -17.831 -29.159	1.00 27.60	H
ATOM 4252	HA THR B 91	-6.762 -16.696 -27.808	1.00 28.22	H
ATOM 4253	HB THR B 91	-7.214 -19.473 -28.202	1.00 30.84	H
ATOM 4254	HG1 THR B 91	-6.966 -19.514 -26.008	1.00 31.68	H
ATOM 4255	HG21 THR B 91	-5.054 -19.931 -27.383	1.00 31.65	H
ATOM 4256	HG22 THR B 91	-4.948 -19.102 -28.723	1.00 31.65	H
ATOM 4257	HG23 THR B 91	-4.739 -18.384 -27.332	1.00 31.65	H
ATOM 4258	N GLY B 92	-5.340 -16.540 -29.814	1.00 18.65	N
ANISOU 4258	N GLY B 92	2811 1748 2528	335 -228 -62	N
ATOM 4259	CA GLY B 92	-4.578 -16.488 -31.043	1.00 17.52	C
ANISOU 4259	CA GLY B 92	2589 1640 2429	376 -216 -191	C
ATOM 4260	C GLY B 92	-3.735 -15.234 -31.100	1.00 16.02	C
ANISOU 4260	C GLY B 92	2383 1555 2148	390 -237 -162	C
ATOM 4261	O GLY B 92	-3.634 -14.479 -30.132	1.00 15.93	O
ANISOU 4261	O GLY B 92	2430 1555 2068	375 -288 -78	O
ATOM 4262	H GLY B 92	-5.035 -16.048 -29.178	1.00 22.38	H
ATOM 4263	HA2 GLY B 92	-3.994 -17.260 -31.100	1.00 21.03	H
ATOM 4264	HA3 GLY B 92	-5.180 -16.494 -31.803	1.00 21.03	H
ATOM 4265	N THR B 93	-3.118 -15.048 -32.259	1.00 16.00	N
ANISOU 4265	N THR B 93	2283 1638 2157	429 -207 -234	N
ATOM 4266	CA THR B 93	-2.351 -13.842 -32.508	1.00 15.50	C
ANISOU 4266	CA THR B 93	2162 1673 2053	432 -225 -173	C
ATOM 4267	C THR B 93	-3.251 -12.633 -32.319	1.00 15.28	C
ANISOU 4267	C THR B 93	2181 1693 1930	373 -224 -137	C
ATOM 4268	O THR B 93	-4.398 -12.619 -32.777	1.00 14.75	O
ANISOU 4268	O THR B 93	2135 1671 1796	347 -164 -191	O
ATOM 4269	CB THR B 93	-1.761 -13.877 -33.920	1.00 16.28	C
ANISOU 4269	CB THR B 93	2119 1916 2152	493 -164 -226	C
ATOM 4270	OG1 THR B 93	-0.857 -14.981 -34.011	1.00 17.04	O
ANISOU 4270	OG1 THR B 93	2165 1962 2348	568 -177 -282	O
ATOM 4271	CG2 THR B 93	-1.010 -12.591 -34.247	1.00 16.14	C
ANISOU 4271	CG2 THR B 93	2002 2005 2126	484 -177 -103	C
ATOM 4272	H THR B 93	-3.129 -15.605 -32.914	1.00 19.20	H

ATOM 4273	HA THR B 93	-1.621 -13.785 -31.871	1.00 18.60	H
ATOM 4274	HB THR B 93	-2.475 -13.990 -34.567	1.00 19.54	H
ATOM 4275	HG1 THR B 93	-1.264 -15.699 -33.857	1.00 20.45	H
ATOM 4276	HG21 THR B 93	-0.647 -12.639 -35.145	1.00 19.37	H
ATOM 4277	HG22 THR B 93	-1.612 -11.833 -34.190	1.00 19.37	H
ATOM 4278	HG23 THR B 93	-0.282 -12.464 -33.619	1.00 19.37	H
ATOM 4279	N TYR B 94	-2.742 -11.648 -31.594	1.00 14.57	N
ANISOU 4279	N TYR B 94	2103 1579 1854	359 -308 -62	N
ATOM 4280	CA TYR B 94	-3.493 -10.464 -31.213	1.00 14.91	C
ANISOU 4280	CA TYR B 94	2188 1634 1843	321 -344 -51	C
ATOM 4281	C TYR B 94	-2.769 -9.250 -31.781	1.00 15.73	C
ANISOU 4281	C TYR B 94	2172 1770 2036	309 -392 21	C
ATOM 4282	O TYR B 94	-1.578 -9.051 -31.510	1.00 16.32	O
ANISOU 4282	O TYR B 94	2186 1800 2214	323 -473 79	O
ATOM 4283	CB TYR B 94	-3.631 -10.375 -29.691	1.00 15.78	C
ANISOU 4283	CB TYR B 94	2408 1678 1910	334 -434 -52	C
ATOM 4284	CG TYR B 94	-4.114 -9.020 -29.243	1.00 15.17	C
ANISOU 4284	CG TYR B 94	2351 1607 1805	326 -509 -79	C
ATOM 4285	CD1 TYR B 94	-5.410 -8.610 -29.508	1.00 16.01	C
ANISOU 4285	CD1 TYR B 94	2487 1761 1833	304 -447 -118	C
ATOM 4286	CD2 TYR B 94	-3.267 -8.138 -28.586	1.00 15.80	C
ANISOU 4286	CD2 TYR B 94	2406 1632 1965	347 -658 -81	C
ATOM 4287	CE1 TYR B 94	-5.857 -7.362 -29.128	1.00 17.19	C
ANISOU 4287	CE1 TYR B 94	2644 1903 1985	311 -525 -162	C
ATOM 4288	CE2 TYR B 94	-3.711 -6.886 -28.193	1.00 17.82	C
ANISOU 4288	CE2 TYR B 94	2666 1866 2238	355 -755 -143	C
ATOM 4289	CZ TYR B 94	-5.010 -6.506 -28.471	1.00 17.46	C
ANISOU 4289	CZ TYR B 94	2652 1868 2115	340 -684 -185	C
ATOM 4290	OH TYR B 94	-5.469 -5.267 -28.089	1.00 19.01	O
ANISOU 4290	OH TYR B 94	2844 2030 2349	361 -788 -265	O
ATOM 4291	H TYR B 94	-1.934 -11.645 -31.301	1.00 17.48	H
ATOM 4292	HA TYR B 94	-4.381 -10.503 -31.602	1.00 17.89	H
ATOM 4293	HB2 TYR B 94	-4.272 -11.039 -29.391	1.00 18.94	H
ATOM 4294	HB3 TYR B 94	-2.766 -10.538 -29.283	1.00 18.94	H
ATOM 4295	HD1 TYR B 94	-5.987 -9.184 -29.957	1.00 19.21	H
ATOM 4296	HD2 TYR B 94	-2.392 -8.393 -28.403	1.00 18.96	H
ATOM 4297	HE1 TYR B 94	-6.732 -7.105 -29.309	1.00 20.63	H
ATOM 4298	HE2 TYR B 94	-3.137 -6.304 -27.750	1.00 21.38	H
ATOM 4299	HH TYR B 94	-4.859 -4.841 -27.699	1.00 22.81	H
ATOM 4300	N LYS B 95	-3.481 -8.447 -32.573	1.00 15.11	N
ANISOU 4300	N LYS B 95	2040 1763 1936	278 -348 41	N
ATOM 4301	CA LYS B 95	-2.858 -7.377 -33.336	1.00 18.07	C
ANISOU 4301	CA LYS B 95	2259 2184 2423	261 -375 164	C
ATOM 4302	C LYS B 95	-3.206 -5.975 -32.853	1.00 19.19	C
ANISOU 4302	C LYS B 95	2393 2234 2664	223 -489 193	C
ATOM 4303	O LYS B 95	-2.567 -5.016 -33.297	1.00 21.46	O
ANISOU 4303	O LYS B 95	2531 2506 3117	199 -550 326	O
ATOM 4304	CB LYS B 95	-3.242 -7.506 -34.819	1.00 19.91	C
ANISOU 4304	CB LYS B 95	2383 2603 2578	270 -243 204	C
ATOM 4305	CG LYS B 95	-2.740 -8.776 -35.509	1.00 23.36	C
ANISOU 4305	CG LYS B 95	2780 3153 2945	336 -151 147	C
ATOM 4306	CD LYS B 95	-1.211 -8.891 -35.417	1.00 27.20	C
ANISOU 4306	CD LYS B 95	3165 3627 3541	371 -194 233	C

ATOM 4307 CE LYS B 95	-0.543 -8.945 -36.775 1.00 30.30	C
ANISOU 4307 CE LYS B 95	3359 4253 3899 434 -100 321	C
ATOM 4308 NZ LYS B 95	-0.565 -10.315 -37.343 1.00 31.88	N
ANISOU 4308 NZ LYS B 95	3569 4556 3987 527 -15 152	N
ATOM 4309 H LYS B 95	-4.332 -8.506 -32.683 1.00 18.13	H
ATOM 4310 HA LYS B 95	-1.895 -7.476 -33.273 1.00 21.68	H
ATOM 4311 HB2 LYS B 95	-4.210 -7.499 -34.889 1.00 23.89	H
ATOM 4312 HB3 LYS B 95	-2.876 -6.748 -35.300 1.00 23.89	H
ATOM 4313 HG2 LYS B 95	-3.131 -9.552 -35.077 1.00 28.04	H
ATOM 4314 HG3 LYS B 95	-2.988 -8.752 -36.446 1.00 28.04	H
ATOM 4315 HD2 LYS B 95	-0.864 -8.118 -34.943 1.00 32.64	H
ATOM 4316 HD3 LYS B 95	-0.983 -9.703 -34.938 1.00 32.64	H
ATOM 4317 HE2 LYS B 95	-1.013 -8.356 -37.386 1.00 36.35	H
ATOM 4318 HE3 LYS B 95	0.382 -8.668 -36.688 1.00 36.35	H
ATOM 4319 HZ1 LYS B 95	-0.135 -10.875 -36.802 1.00 38.25	H
ATOM 4320 HZ2 LYS B 95	-1.405 -10.592 -37.438 1.00 38.25	H
ATOM 4321 HZ3 LYS B 95	-0.168 -10.320 -38.140 1.00 38.25	H
ATOM 4322 N GLY B 96	-4.184 -5.823 -31.961 1.00 17.88	N
ANISOU 4322 N GLY B 96	2364 2007 2423 226 -525 78	N
ATOM 4323 CA GLY B 96	-4.630 -4.523 -31.516 1.00 17.58	C
ANISOU 4323 CA GLY B 96	2318 1884 2479 215 -640 55	C
ATOM 4324 C GLY B 96	-6.139 -4.457 -31.515 1.00 15.73	C
ANISOU 4324 C GLY B 96	2168 1698 2109 215 -567 -25	C
ATOM 4325 O GLY B 96	-6.825 -5.483 -31.442 1.00 13.88	O
ANISOU 4325 O GLY B 96	2030 1537 1709 224 -457 -81	O
ATOM 4326 H GLY B 96	-4.607 -6.477 -31.597 1.00 21.46	H
ATOM 4327 HA2 GLY B 96	-4.308 -4.353 -30.617 1.00 21.10	H
ATOM 4328 HA3 GLY B 96	-4.287 -3.836 -32.108 1.00 21.10	H
ATOM 4329 N THR B 97	-6.664 -3.235 -31.615 1.00 14.87	N
ANISOU 4329 N THR B 97	2007 1538 2105 202 -637 -21	N
ATOM 4330 CA THR B 97	-8.096 -2.994 -31.518 1.00 14.39	C
ANISOU 4330 CA THR B 97	2015 1515 1939 211 -587 -102	C
ATOM 4331 C THR B 97	-8.568 -2.068 -32.632 1.00 14.52	C
ANISOU 4331 C THR B 97	1901 1549 2068 167 -566 11	C
ATOM 4332 O THR B 97	-7.797 -1.287 -33.195 1.00 15.79	O
ANISOU 4332 O THR B 97	1910 1656 2433 136 -638 153	O
ATOM 4333 CB THR B 97	-8.469 -2.373 -30.158 1.00 15.03	C
ANISOU 4333 CB THR B 97	2181 1514 2014 279 -721 -265	C
ATOM 4334 OG1 THR B 97	-7.859 -1.082 -30.034 1.00 16.70	O
ANISOU 4334 OG1 THR B 97	2288 1574 2482 283 -906 -266	O
ATOM 4335 CG2 THR B 97	-8.006 -3.263 -29.011 1.00 15.79	C
ANISOU 4335 CG2 THR B 97	2390 1637 1974 335 -744 -346	C
ATOM 4336 H THR B 97	-6.201 -2.522 -31.740 1.00 17.85	H
ATOM 4337 HA THR B 97	-8.568 -3.838 -31.605 1.00 17.27	H
ATOM 4338 HB THR B 97	-9.433 -2.279 -30.102 1.00 18.03	H
ATOM 4339 HG1 THR B 97	-7.023 -1.154 -30.085 1.00 20.03	H
ATOM 4340 HG21 THR B 97	-8.247 -2.860 -28.162 1.00 18.95	H
ATOM 4341 HG22 THR B 97	-8.427 -4.134 -29.077 1.00 18.95	H
ATOM 4342 HG23 THR B 97	-7.043 -3.374 -29.045 1.00 18.95	H
ATOM 4343 N VAL B 98	-9.863 -2.151 -32.930 1.00 13.47	N
ANISOU 4343 N VAL B 98	1811 1496 1811 164 -472 -28	N
ATOM 4344 CA VAL B 98	-10.522 -1.217 -33.840 1.00 14.12	C
ANISOU 4344 CA VAL B 98	1779 1600 1985 133 -462 72	C

ATOM 4345 C VAL B 98	-11.819 -0.746 -33.196 1.00 13.84	C
ANISOU 4345 C VAL B 98	1824 1531 1904 168 -482 -63	C
ATOM 4346 O VAL B 98	-12.561 -1.542 -32.607 1.00 13.36	O
ANISOU 4346 O VAL B 98	1891 1537 1650 196 -405 -179	O
ATOM 4347 CB VAL B 98	-10.779 -1.853 -35.231 1.00 14.69	C
ANISOU 4347 CB VAL B 98	1780 1865 1935 101 -305 185	C
ATOM 4348 CG1 VAL B 98	-11.607 -3.112 -35.131 1.00 14.94	C
ANISOU 4348 CG1 VAL B 98	1940 1994 1743 112 -185 57	C
ATOM 4349 CG2 VAL B 98	-11.431 -0.862 -36.163 1.00 15.96	C
ANISOU 4349 CG2 VAL B 98	1809 2077 2180 75 -300 320	C
ATOM 4350 H VAL B 98	-10.390 -2.751 -32.611 1.00 16.16	H
ATOM 4351 HA VAL B 98	-9.952 -0.443 -33.966 1.00 16.94	H
ATOM 4352 HB VAL B 98	-9.924 -2.098 -35.619 1.00 17.62	H
ATOM 4353 HG11 VAL B 98	-11.742 -3.473 -36.021 1.00 17.93	H
ATOM 4354 HG12 VAL B 98	-11.136 -3.756 -34.580 1.00 17.93	H
ATOM 4355 HG13 VAL B 98	-12.463 -2.895 -34.729 1.00 17.93	H
ATOM 4356 HG21 VAL B 98	-11.578 -1.286 -37.022 1.00 19.16	H
ATOM 4357 HG22 VAL B 98	-12.277 -0.581 -35.782 1.00 19.16	H
ATOM 4358 HG23 VAL B 98	-10.845 -0.096 -36.268 1.00 19.16	H
ATOM 4359 N LYS B 99	-12.074 0.559 -33.276 1.00 14.97	N
ANISOU 4359 N LYS B 99	1875 1565 2249 171 -593 -35	N
ATOM 4360 CA LYS B 99	-13.325 1.142 -32.819 1.00 16.78	C
ANISOU 4360 CA LYS B 99	2148 1770 2459 217 -615 -158	C
ATOM 4361 C LYS B 99	-14.259 1.330 -34.007 1.00 16.05	C
ANISOU 4361 C LYS B 99	1971 1779 2347 170 -509 -28	C
ATOM 4362 O LYS B 99	-13.882 1.947 -35.008 1.00 16.21	O
ANISOU 4362 O LYS B 99	1834 1794 2530 121 -529 169	O
ATOM 4363 CB LYS B 99	-13.074 2.478 -32.118 1.00 22.55	C
ANISOU 4363 CB LYS B 99	2819 2292 3456 270 -831 -249	C
ATOM 4364 CG LYS B 99	-12.539 2.321 -30.701 1.00 26.55	C
ANISOU 4364 CG LYS B 99	3434 2741 3914 357 -948 -461	C
ATOM 4365 CD LYS B 99	-12.254 3.675 -30.052 1.00 31.96	C
ANISOU 4365 CD LYS B 99	4043 3206 4893 424 -1199 -598	C
ATOM 4366 CE LYS B 99	-12.175 3.551 -28.530 1.00 35.68	C
ANISOU 4366 CE LYS B 99	4638 3697 5224 560 -1308 -883	C
ATOM 4367 NZ LYS B 99	-11.354 2.380 -28.105 1.00 36.34	N
ANISOU 4367 NZ LYS B 99	4816 3889 5101 550 -1239 -858	N
ATOM 4368 H LYS B 99	-11.523 1.136 -33.599 1.00 17.97	H
ATOM 4369 HA LYS B 99	-13.749 0.540 -32.188 1.00 20.14	H
ATOM 4370 HB2 LYS B 99	-12.423 2.983 -32.629 1.00 27.06	H
ATOM 4371 HB3 LYS B 99	-13.909 2.969 -32.069 1.00 27.06	H
ATOM 4372 HG2 LYS B 99	-13.198 1.859 -30.160 1.00 31.86	H
ATOM 4373 HG3 LYS B 99	-11.711 1.816 -30.725 1.00 31.86	H
ATOM 4374 HD2 LYS B 99	-11.404 4.013 -30.375 1.00 38.35	H
ATOM 4375 HD3 LYS B 99	-12.968 4.293 -30.272 1.00 38.35	H
ATOM 4376 HE2 LYS B 99	-11.769 4.353 -28.166 1.00 42.82	H
ATOM 4377 HE3 LYS B 99	-13.070 3.438 -28.173 1.00 42.82	H
ATOM 4378 HZ1 LYS B 99	-11.710 1.628 -28.422 1.00 43.60	H
ATOM 4379 HZ2 LYS B 99	-10.524 2.461 -28.416 1.00 43.60	H
ATOM 4380 HZ3 LYS B 99	-11.327 2.334 -27.216 1.00 43.60	H
ATOM 4381 N SER B 100	-15.478 0.811 -33.890 1.00 14.81	N
ANISOU 4381 N SER B 100	1901 1730 1994 188 -400 -117	N
ATOM 4382 CA SER B 100	-16.431 0.892 -34.983 1.00 14.09	C

ANISOU 4382	CA	SER B 100	1738	1755	1862	148	-304	-14	C
ATOM 4383	C	SER B 100	-17.835	0.725	-34.426	1.00	14.47		C
ANISOU 4383	C	SER B 100	1873	1849	1775	189	-247	-151	C
ATOM 4384	O	SER B 100	-18.069	-0.135	-33.575	1.00	14.79		O
ANISOU 4384	O	SER B 100	2034	1933	1651	219	-194	-268	O
ATOM 4385	CB	SER B 100	-16.139	-0.180	-36.044	1.00	12.78		C
ANISOU 4385	CB	SER B 100	1548	1764	1546	97	-175	84	C
ATOM 4386	OG	SER B 100	-16.886	0.048	-37.220	1.00	13.20		O
ANISOU 4386	OG	SER B 100	1498	1950	1568	70	-111	197	O
ATOM 4387	H	SER B 100	-15.774	0.409	-33.190	1.00	17.77		H
ATOM 4388	HA	SER B 100	-16.368	1.765	-35.402	1.00	16.91		H
ATOM 4389	HB2	SER B 100	-15.194	-0.158	-36.263	1.00	15.34		H
ATOM 4390	HB3	SER B 100	-16.374	-1.050	-35.686	1.00	15.34		H
ATOM 4391	HG	SER B 100	-17.707	0.030	-37.046	1.00	15.84		H
ATOM 4392	N	ASP B 101	-18.756	1.565	-34.901	1.00	13.62		N
ANISOU 4392	N	ASP B 101	1684	1740	1750	191	-258	-108	N
ATOM 4393	CA	ASP B 101	-20.189	1.392	-34.649	1.00	13.48		C
ANISOU 4393	CA	ASP B 101	1714	1802	1605	220	-181	-197	C
ATOM 4394	C	ASP B 101	-20.486	1.312	-33.155	1.00	14.63		C
ANISOU 4394	C	ASP B 101	1972	1918	1668	315	-208	-391	C
ATOM 4395	O	ASP B 101	-21.235	0.452	-32.693	1.00	14.42		O
ANISOU 4395	O	ASP B 101	2021	2007	1451	330	-101	-445	O
ATOM 4396	CB	ASP B 101	-20.717	0.157	-35.377	1.00	13.40		C
ANISOU 4396	CB	ASP B 101	1727	1963	1401	159	-32	-154	C
ATOM 4397	CG	ASP B 101	-20.375	0.173	-36.850	1.00	12.90		C
ANISOU 4397	CG	ASP B 101	1545	1995	1361	98	-6	10	C
ATOM 4398	OD1	ASP B 101	-20.982	0.986	-37.588	1.00	14.48		O
ANISOU 4398	OD1	ASP B 101	1635	2228	1639	90	-20	111	O
ATOM 4399	OD2	ASP B 101	-19.492	-0.611	-37.264	1.00	12.14		O
ANISOU 4399	OD2	ASP B 101	1453	1958	1201	72	28	42	O
ATOM 4400	H	ASP B 101	-18.573	2.254	-35.382	1.00	16.34		H
ATOM 4401	HA	ASP B 101	-20.660	2.164	-35.000	1.00	16.17		H
ATOM 4402	HB2	ASP B 101	-20.322	-0.637	-34.985	1.00	16.08		H
ATOM 4403	HB3	ASP B 101	-21.683	0.126	-35.292	1.00	16.08		H
ATOM 4404	N	GLY B 102	-19.886	2.220	-32.397	1.00	14.77		N
ANISOU 4404	N	GLY B 102	1983	1793	1837	388	-362	-489	N
ATOM 4405	CA	GLY B 102	-20.147	2.292	-30.976	1.00	17.53		C
ANISOU 4405	CA	GLY B 102	2418	2158	2086	514	-408	-697	C
ATOM 4406	C	GLY B 102	-19.476	1.228	-30.130	1.00	18.09		C
ANISOU 4406	C	GLY B 102	2600	2306	1969	533	-369	-740	C
ATOM 4407	O	GLY B 102	-19.692	1.211	-28.911	1.00	20.88		O
ANISOU 4407	O	GLY B 102	3015	2728	2188	653	-396	-894	O
ATOM 4408	H	GLY B 102	-19.324	2.804	-32.685	1.00	17.73		H
ATOM 4409	HA2	GLY B 102	-19.856	3.157	-30.649	1.00	21.04		H
ATOM 4410	HA3	GLY B 102	-21.104	2.225	-30.831	1.00	21.04		H
ATOM 4411	N	GLY B 103	-18.652	0.362	-30.723	1.00	17.77		N
ANISOU 4411	N	GLY B 103	1861	2818	2073	656	-194	-397	N
ATOM 4412	CA	GLY B 103	-18.007	-0.705	-29.991	1.00	16.95		C
ANISOU 4412	CA	GLY B 103	1830	2761	1849	537	-155	-369	C
ATOM 4413	C	GLY B 103	-16.508	-0.705	-30.229	1.00	15.70		C
ANISOU 4413	C	GLY B 103	1774	2417	1773	467	-255	-331	C
ATOM 4414	O	GLY B 103	-15.994	-0.047	-31.146	1.00	14.56		O
ANISOU 4414	O	GLY B 103	1630	2116	1787	464	-319	-287	O

ATOM 4415	H	GLY B 103	-18.453	0.379	-31.560	1.00	21.32	H
ATOM 4416	HA2	GLY B 103	-18.171	-0.595	-29.041	1.00	20.34	H
ATOM 4417	HA3	GLY B 103	-18.367	-1.560	-30.273	1.00	20.34	H
ATOM 4418	N	THR B 104	-15.811	-1.448	-29.373	1.00	14.81	N
ANISOU 4418	N	THR B 104	1741	2338	1549	424	-259 -337	N
ATOM 4419	CA	THR B 104	-14.383	-1.687	-29.520	1.00	14.71	C
ANISOU 4419	CA	THR B 104	1788	2200	1603	360	-352 -310	C
ATOM 4420	C	THR B 104	-14.169	-3.179	-29.734	1.00	13.92	C
ANISOU 4420	C	THR B 104	1716	2152	1419	257	-295 -176	C
ATOM 4421	O	THR B 104	-14.703	-3.999	-28.978	1.00	15.20	O
ANISOU 4421	O	THR B 104	1918	2430	1427	252	-209 -138	O
ATOM 4422	CB	THR B 104	-13.605	-1.193	-28.294	1.00	17.94	C
ANISOU 4422	CB	THR B 104	2263	2594	1962	444	-458 -469	C
ATOM 4423	OG1	THR B 104	-13.904	0.194	-28.075	1.00	19.58	O
ANISOU 4423	OG1	THR B 104	2448	2718	2274	544	-512 -631	O
ATOM 4424	CG2	THR B 104	-12.106	-1.348	-28.492	1.00	17.92	C
ANISOU 4424	CG2	THR B 104	2267	2475	2067	382	-572 -469	C
ATOM 4425	H	THR B 104	-16.154	-1.832	-28.684	1.00	17.78	H
ATOM 4426	HA	THR B 104	-14.056	-1.215	-30.302	1.00	17.66	H
ATOM 4427	HB	THR B 104	-13.868	-1.708	-27.515	1.00	21.53	H
ATOM 4428	HG1	THR B 104	-14.727	0.293	-27.941	1.00	23.50	H
ATOM 4429	HG21	THR B 104	-11.634	-1.030	-27.706	1.00	21.50	H
ATOM 4430	HG22	THR B 104	-11.886	-2.281	-28.636	1.00	21.50	H
ATOM 4431	HG23	THR B 104	-11.819	-0.833	-29.262	1.00	21.50	H
ATOM 4432	N	TYR B 105	-13.376	-3.520	-30.743	1.00	12.25	N
ANISOU 4432	N	TYR B 105	1491	1846	1317	182	-328 -102	N
ATOM 4433	CA	TYR B 105	-13.165	-4.900	-31.166	1.00	12.94	C
ANISOU 4433	CA	TYR B 105	1605	1944	1369	98	-285 -1	C
ATOM 4434	C	TYR B 105	-11.690	-5.259	-31.040	1.00	12.80	C
ANISOU 4434	C	TYR B 105	1629	1851	1383	105	-371 1	C
ATOM 4435	O	TYR B 105	-10.820	-4.496	-31.473	1.00	12.71	O
ANISOU 4435	O	TYR B 105	1565	1764	1499	108	-438 -36	O
ATOM 4436	CB	TYR B 105	-13.614	-5.119	-32.623	1.00	12.26	C
ANISOU 4436	CB	TYR B 105	1444	1859	1355	36	-248 52	C
ATOM 4437	CG	TYR B 105	-15.079	-4.868	-32.916	1.00	12.01	C
ANISOU 4437	CG	TYR B 105	1328	1931	1305	39	-189 35	C
ATOM 4438	CD1	TYR B 105	-15.579	-3.578	-33.017	1.00	12.64	C
ANISOU 4438	CD1	TYR B 105	1358	2020	1425	134	-213 -6	C
ATOM 4439	CD2	TYR B 105	-15.959	-5.928	-33.138	1.00	11.55	C
ANISOU 4439	CD2	TYR B 105	1223	1948	1218	-50	-118 49	C
ATOM 4440	CE1	TYR B 105	-16.915	-3.345	-33.302	1.00	12.60	C
ANISOU 4440	CE1	TYR B 105	1250	2135	1405	171	-176 -33	C
ATOM 4441	CE2	TYR B 105	-17.291	-5.700	-33.422	1.00	12.42	C
ANISOU 4441	CE2	TYR B 105	1205	2182	1332	-48	-79 7	C
ATOM 4442	CZ	TYR B 105	-17.764	-4.399	-33.495	1.00	13.43	C
ANISOU 4442	CZ	TYR B 105	1275	2355	1473	78	-112 -34	C
ATOM 4443	OH	TYR B 105	-19.089	-4.152	-33.781	1.00	13.86	O
ANISOU 4443	OH	TYR B 105	1179	2556	1531	115	-89 -86	O
ATOM 4444	H	TYR B 105	-12.936	-2.951	-31.214	1.00	14.70	H
ATOM 4445	HA	TYR B 105	-13.676	-5.495	-30.595	1.00	15.53	H
ATOM 4446	HB2	TYR B 105	-13.100	-4.525	-33.192	1.00	14.71	H
ATOM 4447	HB3	TYR B 105	-13.425	-6.039	-32.864	1.00	14.71	H
ATOM 4448	HD1	TYR B 105	-15.010	-2.856	-32.879	1.00	15.17	H

ATOM	4449	HD2 TYR B 105	-15.646	-6.802	-33.082	1.00	13.86		H
ATOM	4450	HE1 TYR B 105	-17.234	-2.474	-33.354	1.00	15.12		H
ATOM	4451	HE2 TYR B 105	-17.869	-6.416	-33.557	1.00	14.91		H
ATOM	4452	HH TYR B 105	-19.502	-4.878	-33.877	1.00	16.63		H
ATOM	4453	N ASP B 106	-11.418	-6.421	-30.453	1.00	11.69		N
ANISOU	4453	N ASP B 106	1573	1725	1144	110	-360	55	N
ATOM	4454	CA ASP B 106	-10.077	-6.991	-30.453	1.00	12.37		C
ANISOU	4454	CA ASP B 106	1684	1755	1260	142	-445	65	C
ATOM	4455	C ASP B 106	-9.806	-7.676	-31.788	1.00	12.01		C
ANISOU	4455	C ASP B 106	1597	1651	1315	77	-407	114	C
ATOM	4456	O ASP B 106	-10.670	-8.368	-32.330	1.00	12.25		O
ANISOU	4456	O ASP B 106	1642	1679	1335	10	-323	158	O
ATOM	4457	CB ASP B 106	-9.929	-8.000	-29.316	1.00	13.05		C
ANISOU	4457	CB ASP B 106	1903	1867	1186	216	-452	129	C
ATOM	4458	CG ASP B 106	-9.986	-7.351	-27.945	1.00	15.37		C
ANISOU	4458	CG ASP B 106	2249	2268	1322	327	-510	58	C
ATOM	4459	OD1 ASP B 106	-9.352	-6.288	-27.766	1.00	14.92		O
ANISOU	4459	OD1 ASP B 106	2120	2221	1330	372	-633	-91	O
ATOM	4460	OD2 ASP B 106	-10.662	-7.905	-27.049	1.00	16.51		O
ANISOU	4460	OD2 ASP B 106	2505	2487	1282	369	-425	146	O
ATOM	4461	H ASP B 106	-12.000	-6.903	-30.043	1.00	14.03		H
ATOM	4462	HA ASP B 106	-9.423	-6.286	-30.328	1.00	14.84		H
ATOM	4463	HB2 ASP B 106	-10.650	-8.647	-29.371	1.00	15.66		H
ATOM	4464	HB3 ASP B 106	-9.073	-8.448	-29.400	1.00	15.66		H
ATOM	4465	N ILE B 107	-8.600	-7.485	-32.320	1.00	13.20		N
ANISOU	4465	N ILE B 107	1678	1770	1566	97	-468	85	N
ATOM	4466	CA ILE B 107	-8.230	-8.025	-33.627	1.00	13.06		C
ANISOU	4466	CA ILE B 107	1612	1735	1616	68	-424	110	C
ATOM	4467	C ILE B 107	-7.364	-9.265	-33.423	1.00	13.82		C
ANISOU	4467	C ILE B 107	1760	1790	1703	136	-463	115	C
ATOM	4468	O ILE B 107	-6.322	-9.202	-32.759	1.00	15.13		O
ANISOU	4468	O ILE B 107	1901	1961	1885	217	-557	83	O
ATOM	4469	CB ILE B 107	-7.493	-6.984	-34.484	1.00	14.42		C
ANISOU	4469	CB ILE B 107	1655	1915	1909	50	-417	101	C
ATOM	4470	CG1 ILE B 107	-8.359	-5.736	-34.687	1.00	14.16		C
ANISOU	4470	CG1 ILE B 107	1599	1879	1901	13	-384	119	C
ATOM	4471	CG2 ILE B 107	-7.117	-7.594	-35.840	1.00	14.45		C
ANISOU	4471	CG2 ILE B 107	1615	1952	1923	52	-349	128	C
ATOM	4472	CD1 ILE B 107	-7.584	-4.545	-35.235	1.00	14.52		C
ANISOU	4472	CD1 ILE B 107	1542	1872	2102	-14	-369	143	C
ATOM	4473	H ILE B 107	-7.971	-7.041	-31.938	1.00	15.84		H
ATOM	4474	HA ILE B 107	-9.033	-8.292	-34.100	1.00	15.67		H
ATOM	4475	HB ILE B 107	-6.679	-6.725	-34.024	1.00	17.30		H
ATOM	4476	HG12 ILE B 107	-9.068	-5.945	-35.315	1.00	16.99		H
ATOM	4477	HG13 ILE B 107	-8.740	-5.477	-33.833	1.00	16.99		H
ATOM	4478	HG21 ILE B 107	-6.654	-6.926	-36.368	1.00	17.34		H
ATOM	4479	HG22 ILE B 107	-6.539	-8.359	-35.692	1.00	17.34		H
ATOM	4480	HG23 ILE B 107	-7.927	-7.874	-36.295	1.00	17.34		H
ATOM	4481	HD11 ILE B 107	-8.190	-3.795	-35.338	1.00	17.42		H
ATOM	4482	HD12 ILE B 107	-6.876	-4.316	-34.612	1.00	17.42		H
ATOM	4483	HD13 ILE B 107	-7.204	-4.785	-36.095	1.00	17.42		H
ATOM	4484	N TYR B 108	-7.778	-10.385	-34.017	1.00	12.93		N
ANISOU	4484	N TYR B 108	1707	1629	1578	116	-408	135	N

ATOM 4485 CA TYR B 108	-7.035 -11.636 -33.928 1.00 13.22	C
ANISOU 4485 CA TYR B 108	1812 1579 1630 201 -440 138	C
ATOM 4486 C TYR B 108	-6.776 -12.214 -35.314 1.00 13.20	C
ANISOU 4486 C TYR B 108	1760 1570 1685 205 -399 72	C
ATOM 4487 O TYR B 108	-7.493 -11.930 -36.271 1.00 11.77	O
ANISOU 4487 O TYR B 108	1532 1447 1492 131 -342 40	O
ATOM 4488 CB TYR B 108	-7.786 -12.699 -33.118 1.00 14.11	C
ANISOU 4488 CB TYR B 108	2092 1576 1692 187 -408 220	C
ATOM 4489 CG TYR B 108	-8.187 -12.303 -31.725 1.00 15.27	C
ANISOU 4489 CG TYR B 108	2316 1764 1722 206 -416 299	C
ATOM 4490 CD1 TYR B 108	-7.252 -12.260 -30.702 1.00 16.51	C
ANISOU 4490 CD1 TYR B 108	2520 1953 1801 355 -524 320	C
ATOM 4491 CD2 TYR B 108	-9.518 -12.015 -31.416 1.00 15.24	C
ANISOU 4491 CD2 TYR B 108	2329 1796 1667 96 -319 338	C
ATOM 4492 CE1 TYR B 108	-7.619 -11.918 -29.417 1.00 17.98	C
ANISOU 4492 CE1 TYR B 108	2789 2215 1828 405 -536 375	C
ATOM 4493 CE2 TYR B 108	-9.892 -11.674 -30.129 1.00 16.44	C
ANISOU 4493 CE2 TYR B 108	2552 2019 1676 138 -304 401	C
ATOM 4494 CZ TYR B 108	-8.941 -11.626 -29.137 1.00 17.43	C
ANISOU 4494 CZ TYR B 108	2746 2183 1693 297 -413 419	C
ATOM 4495 OH TYR B 108	-9.303 -11.302 -27.851 1.00 18.23	O
ANISOU 4495 OH TYR B 108	2932 2393 1603 371 -405 466	O
ATOM 4496 H TYR B 108	-8.497 -10.444 -34.485 1.00 15.52	H
ATOM 4497 HA TYR B 108	-6.180 -11.473 -33.500 1.00 15.86	H
ATOM 4498 HB2 TYR B 108	-8.597 -12.932 -33.597 1.00 16.93	H
ATOM 4499 HB3 TYR B 108	-7.220 -13.483 -33.044 1.00 16.93	H
ATOM 4500 HD1 TYR B 108	-6.362 -12.456 -30.887 1.00 19.82	H
ATOM 4501 HD2 TYR B 108	-10.161 -12.047 -32.087 1.00 18.29	H
ATOM 4502 HE1 TYR B 108	-6.981 -11.889 -28.742 1.00 21.58	H
ATOM 4503 HE2 TYR B 108	-10.781 -11.479 -29.935 1.00 19.73	H
ATOM 4504 HH TYR B 108	-8.630 -11.319 -27.350 1.00 21.88	H
ATOM 4505 N THR B 109	-5.757 -13.065 -35.404 1.00 14.67	N
ANISOU 4505 N THR B 109	1959 1702 1913 323 -440 39	N
ATOM 4506 CA THR B 109	-5.588 -13.943 -36.555 1.00 15.97	C
ANISOU 4506 CA THR B 109	2120 1834 2114 362 -405 -54	C
ATOM 4507 C THR B 109	-5.312 -15.353 -36.057 1.00 17.28	C
ANISOU 4507 C THR B 109	2431 1804 2330 461 -447 -52	C
ATOM 4508 O THR B 109	-4.603 -15.543 -35.063 1.00 17.75	O
ANISOU 4508 O THR B 109	2536 1820 2386 576 -520 16	O
ATOM 4509 CB THR B 109	-4.456 -13.492 -37.490 1.00 17.11	C
ANISOU 4509 CB THR B 109	2098 2126 2278 444 -382 -118	C
ATOM 4510 OG1 THR B 109	-3.191 -13.592 -36.823 1.00 19.84	O
ANISOU 4510 OG1 THR B 109	2382 2475 2680 572 -455 -117	O
ATOM 4511 CG2 THR B 109	-4.681 -12.075 -37.956 1.00 15.60	C
ANISOU 4511 CG2 THR B 109	1787 2081 2058 349 -322 -70	C
ATOM 4512 H THR B 109	-5.145 -13.152 -34.805 1.00 17.60	H
ATOM 4513 HA THR B 109	-6.412 -13.959 -37.065 1.00 19.17	H
ATOM 4514 HB THR B 109	-4.446 -14.066 -38.272 1.00 20.53	H
ATOM 4515 HG1 THR B 109	-3.050 -14.387 -36.592 1.00 23.80	H
ATOM 4516 HG21 THR B 109	-3.961 -11.802 -38.546 1.00 18.72	H
ATOM 4517 HG22 THR B 109	-5.522 -12.014 -38.437 1.00 18.72	H
ATOM 4518 HG23 THR B 109	-4.710 -11.476 -37.194 1.00 18.72	H
ATOM 4519 N THR B 110	-5.888 -16.331 -36.751 1.00 17.14	N

ANISOU 4519 N THR B 110	2488	1660	2363	427	-413	-136	N
ATOM 4520 CA THR B 110	-5.724	-17.742	-36.447	1.00	19.26		C
ANISOU 4520 CA THR B 110	2916	1674	2728	509	-439	-143	C
ATOM 4521 C THR B 110	-5.678	-18.520	-37.757	1.00	20.48		C
ANISOU 4521 C THR B 110	3054	1779	2949	547	-429	-352	C
ATOM 4522 O THR B 110	-5.966	-17.990	-38.833	1.00	18.89		O
ANISOU 4522 O THR B 110	2733	1763	2680	496	-397	-472	O
ATOM 4523 CB THR B 110	-6.869	-18.272	-35.575	1.00	20.19		C
ANISOU 4523 CB THR B 110	3193	1592	2885	366	-393	-14	C
ATOM 4524 OG1 THR B 110	-8.118	-18.097	-36.265	1.00	19.05		O
ANISOU 4524 OG1 THR B 110	2990	1485	2763	166	-333	-102	O
ATOM 4525 CG2 THR B 110	-6.921	-17.543	-34.238	1.00	18.75		C
ANISOU 4525 CG2 THR B 110	3045	1493	2588	367	-398	176	C
ATOM 4526 H THR B 110	-6.398	-16.190	-37.429	1.00	20.57		H
ATOM 4527 HA THR B 110	-4.887	-17.878	-35.976	1.00	23.12		H
ATOM 4528 HB THR B 110	-6.729	-19.216	-35.401	1.00	24.22		H
ATOM 4529 HG1 THR B 110	-8.750	-18.385	-35.793	1.00	22.86		H
ATOM 4530 HG21 THR B 110	-7.649	-17.891	-33.700	1.00	22.51		H
ATOM 4531 HG22 THR B 110	-6.087	-17.670	-33.759	1.00	22.51		H
ATOM 4532 HG23 THR B 110	-7.061	-16.595	-34.383	1.00	22.51		H
ATOM 4533 N THR B 111	-5.325	-19.796	-37.654	1.00	23.30		N
ANISOU 4533 N THR B 111	3545	1880	3428	659	-462	-399	N
ATOM 4534 CA THR B 111	-5.347	-20.715	-38.781	1.00	26.64		C
ANISOU 4534 CA THR B 111	3986	2200	3938	708	-468	-640	C
ATOM 4535 C THR B 111	-6.235	-21.901	-38.436	1.00	29.87		C
ANISOU 4535 C THR B 111	4583	2231	4536	590	-462	-643	C
ATOM 4536 O THR B 111	-6.137	-22.455	-37.338	1.00	30.62		O
ANISOU 4536 O THR B 111	4840	2082	4713	621	-460	-446	O
ATOM 4537 CB THR B 111	-3.935	-21.222	-39.122	1.00	29.58		C
ANISOU 4537 CB THR B 111	4328	2578	4332	990	-512	-746	C
ATOM 4538 OG1 THR B 111	-3.042	-20.115	-39.268	1.00	29.01		O
ANISOU 4538 OG1 THR B 111	4056	2837	4129	1071	-495	-706	O
ATOM 4539 CG2 THR B 111	-3.947	-22.026	-40.412	1.00	32.17		C
ANISOU 4539 CG2 THR B 111	4654	2860	4708	1067	-515	-1046	C
ATOM 4540 H THR B 111	-5.061	-20.161	-36.921	1.00	27.96		H
ATOM 4541 HA THR B 111	-5.714	-20.268	-39.560	1.00	31.97		H
ATOM 4542 HB THR B 111	-3.620	-21.797	-38.407	1.00	35.49		H
ATOM 4543 HG1 THR B 111	-2.271	-20.391	-39.454	1.00	34.81		H
ATOM 4544 HG21 THR B 111	-3.052	-22.340	-40.615	1.00	38.60		H
ATOM 4545 HG22 THR B 111	-4.536	-22.792	-40.319	1.00	38.60		H
ATOM 4546 HG23 THR B 111	-4.262	-21.473	-41.144	1.00	38.60		H
ATOM 4547 N ARG B 112	-7.089	-22.303	-39.375	1.00	31.64		N
ANISOU 4547 N ARG B 112	4784	2405	4833	459	-460	-867	N
ATOM 4548 CA ARG B 112	-7.897	-23.508	-39.223	1.00	35.67		C
ANISOU 4548 CA ARG B 112	5441	2521	5592	319	-453	-928	C
ATOM 4549 C ARG B 112	-7.407	-24.564	-40.206	1.00	37.35		C
ANISOU 4549 C ARG B 112	5686	2601	5904	460	-502	-1216	C
ATOM 4550 O ARG B 112	-7.188	-24.267	-41.384	1.00	37.43		O
ANISOU 4550 O ARG B 112	5565	2875	5782	548	-541	-1466	O
ATOM 4551 CB ARG B 112	-9.383	-23.205	-39.433	1.00	36.85		C
ANISOU 4551 CB ARG B 112	5499	2725	5777	20	-417	-982	C
ATOM 4552 CG ARG B 112	-10.299	-24.260	-38.816	1.00	41.20		C
ANISOU 4552 CG ARG B 112	6178	2871	6604	-200	-353	-916	C

ATOM 4553	CD ARG B 112	-11.645 -23.684 -38.418 1.00 41.82	C
ANISOU 4553	CD ARG B 112	6146 3043 6702 -487 -277 -821	C
ATOM 4554	NE ARG B 112	-12.290 -24.498 -37.385 1.00 45.69	N
ANISOU 4554	NE ARG B 112	6776 3236 7350 -666 -144 -584	N
ATOM 4555	CZ ARG B 112	-13.342 -25.293 -37.571 1.00 50.13	C
ANISOU 4555	CZ ARG B 112	7318 3662 8069 -899 -109 -662	C
ATOM 4556	NH1 ARG B 112	-13.914 -25.407 -38.763 1.00 51.74	N
ANISOU 4556	NH1 ARG B 112	7361 3993 8306 -978 -202 -991	N
ATOM 4557	NH2 ARG B 112	-13.833 -25.979 -36.546 1.00 53.13	N
ANISOU 4557	NH2 ARG B 112	7830 3798 8560 -1042 3 -399	N
ATOM 4558	H ARG B 112	-7.218 -21.890 -40.118 1.00 37.97	H
ATOM 4559	HA ARG B 112	-7.784 -23.855 -38.325 1.00 42.81	H
ATOM 4560	HB2 ARG B 112	-9.592 -22.351 -39.023 1.00 44.22	H
ATOM 4561	HB3 ARG B 112	-9.566 -23.170 -40.384 1.00 44.22	H
ATOM 4562	HG2 ARG B 112	-10.452 -24.966 -39.463 1.00 49.44	H
ATOM 4563	HG3 ARG B 112	-9.878 -24.621 -38.020 1.00 49.44	H
ATOM 4564	HD2 ARG B 112	-11.519 -22.789 -38.066 1.00 50.19	H
ATOM 4565	HD3 ARG B 112	-12.226 -23.662 -39.194 1.00 50.19	H
ATOM 4566	HE ARG B 112	-11.961 -24.459 -36.591 1.00 54.83	H
ATOM 4567	HH11 ARG B 112	-13.603 -24.966 -39.433 1.00 62.09	H
ATOM 4568	HH12 ARG B 112	-14.593 -25.924 -38.866 1.00 62.09	H
ATOM 4569	HH21 ARG B 112	-13.470 -25.911 -35.769 1.00 63.76	H
ATOM 4570	HH22 ARG B 112	-14.513 -26.493 -36.659 1.00 63.76	H
ATOM 4571	N TYR B 113	-7.228 -25.791 -39.716 1.00 45.41	N
ANISOU 4571	N TYR B 113	6227 3839 7188 1378 -2765 -280	N
ATOM 4572	CA TYR B 113	-6.598 -26.863 -40.476 1.00 46.84	C
ANISOU 4572	CA TYR B 113	6284 3856 7658 1511 -2757 -452	C
ATOM 4573	C TYR B 113	-7.606 -27.952 -40.821 1.00 46.92	C
ANISOU 4573	C TYR B 113	6532 3686 7609 1446 -2670 -356	C
ATOM 4574	O TYR B 113	-8.456 -28.309 -39.999 1.00 45.28	O
ANISOU 4574	O TYR B 113	6595 3444 7164 1350 -2712 -130	O
ATOM 4575	CB TYR B 113	-5.440 -27.481 -39.689 1.00 50.75	C
ANISOU 4575	CB TYR B 113	6705 4287 8291 1656 -2963 -473	C
ATOM 4576	CG TYR B 113	-4.259 -26.559 -39.483 1.00 51.92	C
ANISOU 4576	CG TYR B 113	6592 4596 8538 1721 -3028 -608	C
ATOM 4577	CD1 TYR B 113	-4.157 -25.773 -38.343 1.00 51.91	C
ANISOU 4577	CD1 TYR B 113	6653 4719 8353 1671 -3136 -485	C
ATOM 4578	CD2 TYR B 113	-3.242 -26.481 -40.427 1.00 52.93	C
ANISOU 4578	CD2 TYR B 113	6417 4764 8930 1808 -2951 -863	C
ATOM 4579	CE1 TYR B 113	-3.076 -24.931 -38.150 1.00 52.68	C
ANISOU 4579	CE1 TYR B 113	6523 4962 8531 1714 -3178 -609	C
ATOM 4580	CE2 TYR B 113	-2.158 -25.642 -40.243 1.00 53.49	C
ANISOU 4580	CE2 TYR B 113	6260 4991 9074 1843 -2987 -984	C
ATOM 4581	CZ TYR B 113	-2.080 -24.871 -39.103 1.00 53.37	C
ANISOU 4581	CZ TYR B 113	6316 5084 8877 1800 -3107 -856	C
ATOM 4582	OH TYR B 113	-1.002 -24.036 -38.918 1.00 53.63	O
ANISOU 4582	OH TYR B 113	6136 5266 8976 1824 -3126 -977	O
ATOM 4583	H TYR B 113	-7.470 -26.029 -38.926 1.00 54.49	H
ATOM 4584	HA TYR B 113	-6.244 -26.502 -41.304 1.00 56.21	H
ATOM 4585	HB2 TYR B 113	-5.765 -27.743 -38.814 1.00 60.90	H
ATOM 4586	HB3 TYR B 113	-5.123 -28.263 -40.168 1.00 60.90	H
ATOM 4587	HD1 TYR B 113	-4.827 -25.812 -37.699 1.00 62.29	H
ATOM 4588	HD2 TYR B 113	-3.292 -27.000 -41.197 1.00 63.52	H

ATOM 4589	HE1 TYR B 113	-3.021 -24.409 -37.382	1.00 63.21	H
ATOM 4590	HE2 TYR B 113	-1.485 -25.599 -40.883	1.00 64.19	H
ATOM 4591	HH TYR B 113	-0.476 -24.098 -39.570	1.00 64.36	H
ATOM 4592	N ASN B 114	-7.492 -28.482 -42.040	1.00 48.74	N
ANISOU 4592	N ASN B 114	6644 3833 8041	1474 -2514 -546	N
ATOM 4593	CA ASN B 114	-8.320 -29.597 -42.504	1.00 50.16	C
ANISOU 4593	CA ASN B 114	7018 3840 8200	1412 -2413 -496	C
ATOM 4594	C ASN B 114	-9.788 -29.373 -42.154	1.00 45.82	C
ANISOU 4594	C ASN B 114	6764 3336 7311	1205 -2325 -261	C
ATOM 4595	O ASN B 114	-10.451 -30.226 -41.559	1.00 47.68	O
ANISOU 4595	O ASN B 114	7237 3468 7412	1163 -2377 -82	O
ATOM 4596	CB ASN B 114	-7.824 -30.922 -41.924	1.00 55.11	C
ANISOU 4596	CB ASN B 114	7710 4300 8930	1536 -2572 -443	C
ATOM 4597	CG ASN B 114	-6.332 -31.115 -42.098	1.00 58.68	C
ANISOU 4597	CG ASN B 114	7883 4744 9671	1718 -2662 -635	C
ATOM 4598	OD1 ASN B 114	-5.810 -31.077 -43.213	1.00 58.94	O
ANISOU 4598	OD1 ASN B 114	7692 4799 9901	1748 -2517 -861	O
ATOM 4599	ND2 ASN B 114	-5.633 -31.316 -40.987	1.00 61.07	N
ANISOU 4599	ND2 ASN B 114	8193 5030 9979	1822 -2883 -546	N
ATOM 4600	H ASN B 114	-6.930 -28.206 -42.629	1.00 58.49	H
ATOM 4601	HA ASN B 114	-8.252 -29.653 -43.470	1.00 60.19	H
ATOM 4602	HB2 ASN B 114	-8.021 -30.944 -40.974	1.00 66.14	H
ATOM 4603	HB3 ASN B 114	-8.276 -31.653 -42.374	1.00 66.14	H
ATOM 4604	HD21 ASN B 114	-4.781 -31.432 -41.029	1.00 73.28	H
ATOM 4605	HD22 ASN B 114	-6.031 -31.331 -40.225	1.00 73.28	H
ATOM 4606	N ALA B 115	-10.293 -28.205 -42.525	1.00 39.58	N
ANISOU 4606	N ALA B 115	5908 2809 6321	1019 -2115 -266	N
ATOM 4607	CA ALA B 115	-11.650 -27.792 -42.218	1.00 35.66	C
ANISOU 4607	CA ALA B 115	5654 2409 5486	806 -2002 -46	C
ATOM 4608	C ALA B 115	-12.381 -27.424 -43.502	1.00 36.14	C
ANISOU 4608	C ALA B 115	5640 2636 5455	606 -1657 -143	C
ATOM 4609	O ALA B 115	-11.749 -27.148 -44.529	1.00 33.22	O
ANISOU 4609	O ALA B 115	5002 2365 5256	623 -1505 -383	O
ATOM 4610	CB ALA B 115	-11.644 -26.593 -41.260	1.00 34.75	C
ANISOU 4610	CB ALA B 115	5554 2472 5175	763 -2083 85	C
ATOM 4611	H ALA B 115	-9.852 -27.616 -42.970	1.00 47.49	H
ATOM 4612	HA ALA B 115	-12.123 -28.524 -41.793	1.00 42.79	H
ATOM 4613	HB1 ALA B 115	-12.560 -26.336 -41.070	1.00 41.69	H
ATOM 4614	HB2 ALA B 115	-11.195 -26.848 -40.439	1.00 41.69	H
ATOM 4615	HB3 ALA B 115	-11.173 -25.856 -41.679	1.00 41.69	H
ATOM 4616	N PRO B 116	-13.713 -27.410 -43.485	1.00 37.97	N
ANISOU 4616	N PRO B 116	6101 2908 5417	414 -1525 39	N
ATOM 4617	CA PRO B 116	-14.448 -27.070 -44.707	1.00 37.32	C
ANISOU 4617	CA PRO B 116	5949 2996 5235	218 -1198 -42	C
ATOM 4618	C PRO B 116	-14.362 -25.583 -45.012	1.00 34.10	C
ANISOU 4618	C PRO B 116	5347 2893 4716	115 -1022 -96	C
ATOM 4619	O PRO B 116	-14.443 -24.737 -44.119	1.00 34.37	O
ANISOU 4619	O PRO B 116	5437 3030 4592	92 -1101 45	O
ATOM 4620	CB PRO B 116	-15.883 -27.502 -44.392	1.00 38.08	C
ANISOU 4620	CB PRO B 116	6367 3036 5067	56 -1149 203	C
ATOM 4621	CG PRO B 116	-15.990 -27.378 -42.924	1.00 39.45	C
ANISOU 4621	CG PRO B 116	6744 3135 5110	113 -1395 435	C
ATOM 4622	CD PRO B 116	-14.624 -27.705 -42.364	1.00 40.69	C

ANISOU 4622	CD PRO B 116	6778	3150	5532	363	-1664	330	C
ATOM 4623	HA PRO B 116	-14.112	-27.579	-45.462	1.00	44.78		H
ATOM 4624	HB2 PRO B 116	-16.510	-26.910	-44.835	1.00	45.70		H
ATOM 4625	HB3 PRO B 116	-16.018	-28.421	-44.672	1.00	45.70		H
ATOM 4626	HG2 PRO B 116	-16.243	-26.471	-42.695	1.00	47.34		H
ATOM 4627	HG3 PRO B 116	-16.651	-28.008	-42.595	1.00	47.34		H
ATOM 4628	HD2 PRO B 116	-14.424	-27.132	-41.607	1.00	48.83		H
ATOM 4629	HD3 PRO B 116	-14.572	-28.643	-42.124	1.00	48.83		H
ATOM 4630	N SER B 117	-14.185	-25.276	-46.292	1.00	30.31		N
ANISOU 4630	N SER B 117	4639	2555	4325	53	-778	-306	N
ATOM 4631	CA SER B 117	-14.101	-23.911	-46.775	1.00	25.87		C
ANISOU 4631	CA SER B 117	3871	2282	3677	-48	-573	-382	C
ATOM 4632	C SER B 117	-14.824	-23.840	-48.111	1.00	23.41		C
ANISOU 4632	C SER B 117	3492	2108	3293	-222	-253	-466	C
ATOM 4633	O SER B 117	-15.369	-24.835	-48.601	1.00	23.71		O
ANISOU 4633	O SER B 117	3646	2018	3344	-267	-203	-465	O
ATOM 4634	CB SER B 117	-12.644	-23.459	-46.915	1.00	26.22		C
ANISOU 4634	CB SER B 117	3614	2368	3981	120	-648	-610	C
ATOM 4635	OG SER B 117	-12.014	-24.115	-48.013	1.00	27.04		O
ANISOU 4635	OG SER B 117	3529	2399	4345	196	-567	-858	O
ATOM 4636	H SER B 117	-14.109	-25.863	-46.916	1.00	36.38		H
ATOM 4637	HA SER B 117	-14.548	-23.318	-46.151	1.00	31.04		H
ATOM 4638	HB2 SER B 117	-12.622	-22.501	-47.065	1.00	31.47		H
ATOM 4639	HB3 SER B 117	-12.165	-23.678	-46.100	1.00	31.47		H
ATOM 4640	HG SER B 117	-11.216	-23.860	-48.080	1.00	32.45		H
ATOM 4641	N ILE B 118	-14.826	-22.650	-48.711	1.00	21.21		N
ANISOU 4641	N ILE B 118	3023	2098	2937	-324	-30	-540	N
ATOM 4642	CA ILE B 118	-15.354	-22.504	-50.057	1.00	21.41		C
ANISOU 4642	CA ILE B 118	2938	2279	2918	-476	278	-647	C
ATOM 4643	C ILE B 118	-14.545	-23.289	-51.082	1.00	23.02		C
ANISOU 4643	C ILE B 118	2952	2378	3415	-373	313	-921	C
ATOM 4644	O ILE B 118	-15.023	-23.496	-52.201	1.00	21.79		O
ANISOU 4644	O ILE B 118	2745	2297	3238	-492	540	-1010	O
ATOM 4645	CB ILE B 118	-15.430	-21.007	-50.448	1.00	19.75		C
ANISOU 4645	CB ILE B 118	2549	2379	2578	-589	505	-670	C
ATOM 4646	CG1 ILE B 118	-14.070	-20.324	-50.277	1.00	20.80		C
ANISOU 4646	CG1 ILE B 118	2427	2560	2915	-433	416	-847	C
ATOM 4647	CG2 ILE B 118	-16.475	-20.311	-49.599	1.00	19.08		C
ANISOU 4647	CG2 ILE B 118	2677	2399	2173	-727	526	-385	C
ATOM 4648	CD1 ILE B 118	-14.003	-18.917	-50.851	1.00	20.04		C
ANISOU 4648	CD1 ILE B 118	2117	2759	2740	-531	664	-919	C
ATOM 4649	H ILE B 118	-14.529	-21.922	-48.362	1.00	25.45		H
ATOM 4650	HA ILE B 118	-16.259	-22.854	-50.071	1.00	25.70		H
ATOM 4651	HB ILE B 118	-15.694	-20.943	-51.379	1.00	23.70		H
ATOM 4652	HG12 ILE B 118	-13.867	-20.266	-49.331	1.00	24.96		H
ATOM 4653	HG13 ILE B 118	-13.395	-20.857	-50.725	1.00	24.96		H
ATOM 4654	HG21 ILE B 118	-16.514	-19.376	-49.852	1.00	22.89		H
ATOM 4655	HG22 ILE B 118	-17.335	-20.732	-49.751	1.00	22.89		H
ATOM 4656	HG23 ILE B 118	-16.227	-20.392	-48.665	1.00	22.89		H
ATOM 4657	HD11 ILE B 118	-13.114	-18.558	-50.702	1.00	24.05		H
ATOM 4658	HD12 ILE B 118	-14.190	-18.955	-51.802	1.00	24.05		H
ATOM 4659	HD13 ILE B 118	-14.663	-18.363	-50.405	1.00	24.05		H
ATOM 4660	N ASP B 119	-13.341	-23.755	-50.726	1.00	25.06		N

ANISOU 4660 N ASP B 119	3110	2466	3947	-157	93	-1053	N
ATOM 4661 CA ASP B 119	-12.507	-24.525	-51.644	1.00	27.21		C
ANISOU 4661 CA ASP B 119	3203	2621	4516	-43	117	-1312	C
ATOM 4662 C ASP B 119	-12.598	-26.033	-51.442	1.00	28.80		C
ANISOU 4662 C ASP B 119	3591	2519	4832	42	-41	-1285	C
ATOM 4663 O ASP B 119	-12.057	-26.780	-52.266	1.00	31.02		O
ANISOU 4663 O ASP B 119	3754	2687	5344	117	4	-1490	O
ATOM 4664 CB ASP B 119	-11.034	-24.105	-51.518	1.00	29.63		C
ANISOU 4664 CB ASP B 119	3243	2932	5082	151	-3	-1502	C
ATOM 4665 CG ASP B 119	-10.734	-22.807	-52.243	1.00	28.95		C
ANISOU 4665 CG ASP B 119	2893	3131	4975	77	223	-1638	C
ATOM 4666 OD1 ASP B 119	-11.668	-22.239	-52.845	1.00	27.01		O
ANISOU 4666 OD1 ASP B 119	2670	3079	4514	-120	473	-1581	O
ATOM 4667 OD2 ASP B 119	-9.573	-22.344	-52.198	1.00	30.31		O
ANISOU 4667 OD2 ASP B 119	2835	3336	5345	215	151	-1797	O
ATOM 4668 H ASP B 119	-12.986	-23.635	-49.952	1.00	30.08		H
ATOM 4669 HA ASP B 119	-12.790	-24.334	-52.552	1.00	32.66		H
ATOM 4670 HB2 ASP B 119	-10.819	-23.982	-50.580	1.00	35.55		H
ATOM 4671 HB3 ASP B 119	-10.473	-24.798	-51.900	1.00	35.55		H
ATOM 4672 N GLY B 120	-13.249	-26.503	-50.389	1.00	27.68		N
ANISOU 4672 N GLY B 120	3735	2237	4544	36	-216	-1043	N
ATOM 4673 CA GLY B 120	-13.377	-27.934	-50.193	1.00	29.70		C
ANISOU 4673 CA GLY B 120	4179	2202	4904	113	-354	-1009	C
ATOM 4674 C GLY B 120	-13.752	-28.276	-48.772	1.00	31.06		C
ANISOU 4674 C GLY B 120	4628	2220	4954	163	-610	-747	C
ATOM 4675 O GLY B 120	-13.813	-27.423	-47.886	1.00	29.97		O
ANISOU 4675 O GLY B 120	4530	2192	4667	154	-702	-601	O
ATOM 4676 H GLY B 120	-13.619	-26.021	-49.781	1.00	33.21		H
ATOM 4677 HA2 GLY B 120	-14.062	-28.283	-50.786	1.00	35.64		H
ATOM 4678 HA3 GLY B 120	-12.536	-28.368	-50.404	1.00	35.64		H
ATOM 4679 N ASP B 121	-13.994	-29.571	-48.566	1.00	33.72		N
ANISOU 4679 N ASP B 121	5159	2292	5360	218	-723	-693	N
ATOM 4680 CA ASP B 121	-14.392	-30.079	-47.260	1.00	34.94		C
ANISOU 4680 CA ASP B 121	5597	2269	5410	271	-964	-443	C
ATOM 4681 C ASP B 121	-13.228	-30.172	-46.282	1.00	36.21		C
ANISOU 4681 C ASP B 121	5699	2299	5760	513	-1263	-448	C
ATOM 4682 O ASP B 121	-13.461	-30.197	-45.070	1.00	36.90		O
ANISOU 4682 O ASP B 121	5983	2311	5726	553	-1469	-231	O
ATOM 4683 CB ASP B 121	-15.035	-31.460	-47.416	1.00	36.84		C
ANISOU 4683 CB ASP B 121	6063	2264	5670	247	-971	-390	C
ATOM 4684 H ASP B 121	-13.933	-30.178	-49.173	1.00	40.46		H
ATOM 4685 HA ASP B 121	-15.054	-29.481	-46.880	1.00	41.93		H
ATOM 4686 N ARG B 122	-11.989	-30.216	-46.773	1.00	36.57		N
ANISOU 4686 N ARG B 122	5477	2323	6097	674	-1291	-686	N
ATOM 4687 CA ARG B 122	-10.817	-30.473	-45.933	1.00	39.01		C
ANISOU 4687 CA ARG B 122	5714	2488	6622	920	-1579	-707	C
ATOM 4688 C ARG B 122	-9.697	-29.554	-46.417	1.00	39.19		C
ANISOU 4688 C ARG B 122	5390	2690	6811	995	-1529	-929	C
ATOM 4689 O ARG B 122	-8.907	-29.931	-47.286	1.00	40.09		O
ANISOU 4689 O ARG B 122	5294	2751	7187	1090	-1463	-1163	O
ATOM 4690 CB ARG B 122	-10.423	-31.943	-46.008	1.00	42.20		C
ANISOU 4690 CB ARG B 122	6184	2578	7270	1081	-1699	-763	C
ATOM 4691 CG ARG B 122	-9.779	-32.478	-44.752	1.00	44.37		C

ANISOU 4691	CG ARG B 122	6527	2726	7604	1264	-1995	-628	C
ATOM 4692	CD ARG B 122	-9.338	-33.921	-44.941	1.00	47.30		C
ANISOU 4692	CD ARG B 122	6905	2908	8159	1375	-2023	-678	C
ATOM 4693	NE ARG B 122	-8.318	-34.301	-43.969	1.00	49.94		N
ANISOU 4693	NE ARG B 122	7184	3183	8609	1564	-2269	-630	N
ATOM 4694	CZ ARG B 122	-7.008	-34.307	-44.207	1.00	51.89		C
ANISOU 4694	CZ ARG B 122	7172	3442	9103	1719	-2327	-803	C
ATOM 4695	NH1 ARG B 122	-6.532	-33.957	-45.398	1.00	51.20		N
ANISOU 4695	NH1 ARG B 122	6844	3437	9172	1709	-2149	-1041	N
ATOM 4696	NH2 ARG B 122	-6.165	-34.671	-43.248	1.00	54.21		N
ANISOU 4696	NH2 ARG B 122	7442	3683	9472	1869	-2551	-736	N
ATOM 4697	H ARG B 122	-11.798	-30.099	-47.603	1.00	43.89		H
ATOM 4698	HA ARG B 122	-11.022	-30.253	-45.010	1.00	46.82		H
ATOM 4699	HB2 ARG B 122	-11.219	-32.470	-46.179	1.00	50.63		H
ATOM 4700	HB3 ARG B 122	-9.791	-32.058	-46.735	1.00	50.63		H
ATOM 4701	HG2 ARG B 122	-8.998	-31.945	-44.538	1.00	53.24		H
ATOM 4702	HG3 ARG B 122	-10.419	-32.447	-44.024	1.00	53.24		H
ATOM 4703	HD2 ARG B 122	-10.103	-34.507	-44.824	1.00	56.76		H
ATOM 4704	HD3 ARG B 122	-8.966	-34.028	-45.830	1.00	56.76		H
ATOM 4705	HE ARG B 122	-8.582	-34.538	-43.185	1.00	59.93		H
ATOM 4706	HH11 ARG B 122	-7.072	-33.720	-46.024	1.00	61.44		H
ATOM 4707	HH12 ARG B 122	-5.684	-33.965	-45.542	1.00	61.44		H
ATOM 4708	HH21 ARG B 122	-6.466	-34.900	-42.475	1.00	65.05		H
ATOM 4709	HH22 ARG B 122	-5.318	-34.678	-43.399	1.00	65.05		H
ATOM 4710	N THR B 123	-9.636	-28.347	-45.851	1.00	37.50		N
ANISOU 4710	N THR B 123	5119	2685	6445	948	-1556	-856	N
ATOM 4711	CA THR B 123	-8.714	-27.321	-46.316	1.00	37.93		C
ANISOU 4711	CA THR B 123	4855	2943	6614	983	-1477	-1053	C
ATOM 4712	C THR B 123	-8.128	-26.569	-45.126	1.00	38.24		C
ANISOU 4712	C THR B 123	4867	3048	6612	1072	-1703	-957	C
ATOM 4713	O THR B 123	-8.628	-26.643	-43.999	1.00	37.29		O
ANISOU 4713	O THR B 123	4986	2866	6315	1062	-1876	-722	O
ATOM 4714	CB THR B 123	-9.413	-26.334	-47.265	1.00	35.44		C
ANISOU 4714	CB THR B 123	4451	2898	6117	759	-1149	-1108	C
ATOM 4715	OG1 THR B 123	-10.438	-25.631	-46.555	1.00	33.99		O
ANISOU 4715	OG1 THR B 123	4470	2841	5604	598	-1126	-866	O
ATOM 4716	CG2 THR B 123	-10.039	-27.068	-48.441	1.00	35.58		C
ANISOU 4716	CG2 THR B 123	4500	2864	6155	655	-924	-1198	C
ATOM 4717	H THR B 123	-10.125	-28.099	-45.188	1.00	45.00		H
ATOM 4718	HA THR B 123	-7.985	-27.741	-46.799	1.00	45.52		H
ATOM 4719	HB THR B 123	-8.763	-25.700	-47.608	1.00	42.53		H
ATOM 4720	HG1 THR B 123	-11.005	-26.175	-46.256	1.00	40.79		H
ATOM 4721	HG21 THR B 123	-10.476	-26.435	-49.032	1.00	42.70		H
ATOM 4722	HG22 THR B 123	-9.354	-27.542	-48.938	1.00	42.70		H
ATOM 4723	HG23 THR B 123	-10.695	-27.707	-48.122	1.00	42.70		H
ATOM 4724	N THR B 124	-7.053	-25.832	-45.393	1.00	39.43		N
ANISOU 4724	N THR B 124	4723	3331	6927	1156	-1697	-1146	N
ATOM 4725	CA THR B 124	-6.391	-25.000	-44.397	1.00	41.73		C
ANISOU 4725	CA THR B 124	4943	3718	7193	1230	-1887	-1096	C
ATOM 4726	C THR B 124	-6.463	-23.546	-44.843	1.00	39.52		C
ANISOU 4726	C THR B 124	4492	3740	6785	1081	-1664	-1171	C
ATOM 4727	O THR B 124	-6.153	-23.235	-45.997	1.00	38.35		O
ANISOU 4727	O THR B 124	4115	3702	6755	1049	-1443	-1384	O

ATOM 4728 CB THR B 124	-4.933 -25.428 -44.209 1.00 45.94	C
ANISOU 4728 CB THR B 124	5266 4132 8056 1480 -2107 -1251	C
ATOM 4729 OG1 THR B 124	-4.888 -26.789 -43.758 1.00 48.85	O
ANISOU 4729 OG1 THR B 124	5803 4214 8543 1623 -2311 -1166	O
ATOM 4730 CG2 THR B 124	-4.233 -24.539 -43.193 1.00 46.78	C
ANISOU 4730 CG2 THR B 124	5288 4355 8132 1546 -2302 -1207	C
ATOM 4731 H THR B 124	-6.679 -25.798 -46.167 1.00 47.32	H
ATOM 4732 HA THR B 124	-6.850 -25.085 -43.546 1.00 50.07	H
ATOM 4733 HB THR B 124	-4.464 -25.354 -45.055 1.00 55.12	H
ATOM 4734 HG1 THR B 124	-4.090 -27.030 -43.653 1.00 58.62	H
ATOM 4735 HG21 THR B 124	-3.311 -24.821 -43.085 1.00 56.14	H
ATOM 4736 HG22 THR B 124	-4.246 -23.617 -43.495 1.00 56.14	H
ATOM 4737 HG23 THR B 124	-4.683 -24.596 -42.336 1.00 56.14	H
ATOM 4738 N PHE B 125	-6.868 -22.657 -43.935 1.00 26.21	N
ANISOU 4738 N PHE B 125	3287 2360 4311 987 -17 -506	N
ATOM 4739 CA PHE B 125	-7.029 -21.256 -44.294 1.00 25.04	C
ANISOU 4739 CA PHE B 125	3073 2399 4043 880 31 -505	C
ATOM 4740 C PHE B 125	-6.780 -20.365 -43.084 1.00 23.85	C
ANISOU 4740 C PHE B 125	2893 2313 3856 910 -84 -392	C
ATOM 4741 O PHE B 125	-6.966 -20.774 -41.933 1.00 24.86	O
ANISOU 4741 O PHE B 125	3102 2359 3984 966 -196 -281	O
ATOM 4742 CB PHE B 125	-8.425 -20.983 -44.862 1.00 24.02	C
ANISOU 4742 CB PHE B 125	3048 2317 3763 723 102 -475	C
ATOM 4743 CG PHE B 125	-9.542 -21.511 -44.013 1.00 22.64	C
ANISOU 4743 CG PHE B 125	3022 2048 3531 693 40 -354	C
ATOM 4744 CD1 PHE B 125	-9.974 -22.820 -44.151 1.00 22.67	C
ANISOU 4744 CD1 PHE B 125	3130 1899 3586 701 56 -372	C
ATOM 4745 CD2 PHE B 125	-10.170 -20.698 -43.086 1.00 21.23	C
ANISOU 4745 CD2 PHE B 125	2882 1934 3249 647 -22 -231	C
ATOM 4746 CE1 PHE B 125	-11.003 -23.308 -43.376 1.00 22.48	C
ANISOU 4746 CE1 PHE B 125	3244 1791 3506 655 11 -260	C
ATOM 4747 CE2 PHE B 125	-11.205 -21.183 -42.306 1.00 20.95	C
ANISOU 4747 CE2 PHE B 125	2979 1826 3155 605 -61 -129	C
ATOM 4748 CZ PHE B 125	-11.617 -22.495 -42.454 1.00 21.69	C
ANISOU 4748 CZ PHE B 125	3176 1770 3296 604 -43 -138	C
ATOM 4749 H PHE B 125	-7.054 -22.840 -43.116 1.00 31.45	H
ATOM 4750 HA PHE B 125	-6.377 -21.027 -44.975 1.00 30.05	H
ATOM 4751 HB2 PHE B 125	-8.545 -20.024 -44.946 1.00 28.83	H
ATOM 4752 HB3 PHE B 125	-8.494 -21.400 -45.735 1.00 28.83	H
ATOM 4753 HD1 PHE B 125	-9.562 -23.377 -44.772 1.00 27.21	H
ATOM 4754 HD2 PHE B 125	-9.891 -19.816 -42.984 1.00 25.47	H
ATOM 4755 HE1 PHE B 125	-11.282 -24.190 -43.476 1.00 26.98	H
ATOM 4756 HE2 PHE B 125	-11.618 -20.631 -41.682 1.00 25.14	H
ATOM 4757 HZ PHE B 125	-12.312 -22.826 -41.932 1.00 26.03	H
ATOM 4758 N THR B 126	-6.353 -19.142 -43.365 1.00 22.02	N
ANISOU 4758 N THR B 126	2552 2227 3586 862 -52 -422	N
ATOM 4759 CA THR B 126	-6.190 -18.129 -42.335 1.00 19.99	C
ANISOU 4759 CA THR B 126	2266 2048 3282 863 -144 -336	C
ATOM 4760 C THR B 126	-7.538 -17.510 -41.993 1.00 18.67	C
ANISOU 4760 C THR B 126	2213 1919 2964 750 -144 -235	C
ATOM 4761 O THR B 126	-8.423 -17.382 -42.849 1.00 18.38	O
ANISOU 4761 O THR B 126	2224 1906 2853 648 -56 -250	O
ATOM 4762 CB THR B 126	-5.227 -17.042 -42.815 1.00 21.21	C

ANISOU 4762 CB THR B 126	2261	2333	3465	842	-100	-415	C
ATOM 4763 OG1 THR B 126	-3.949	-17.625	-43.084	1.00	24.20		O
ANISOU 4763 OG1 THR B 126	2510	2687	3998	952	-97	-523	O
ATOM 4764 CG2 THR B 126	-5.076	-15.927	-41.778	1.00	20.54		C
ANISOU 4764 CG2 THR B 126	2145	2327	3333	830	-191	-341	C
ATOM 4765 H THR B 126	-6.148	-18.871	-44.155	1.00	26.42		H
ATOM 4766 HA THR B 126	-5.824	-18.535	-41.534	1.00	23.99		H
ATOM 4767 HB THR B 126	-5.574	-16.648	-43.631	1.00	25.45		H
ATOM 4768 HG1 THR B 126	-3.413	-17.034	-43.348	1.00	29.04		H
ATOM 4769 HG21 THR B 126	-4.462	-15.251	-42.105	1.00	24.65		H
ATOM 4770 HG22 THR B 126	-5.938	-15.514	-41.608	1.00	24.65		H
ATOM 4771 HG23 THR B 126	-4.732	-16.291	-40.948	1.00	24.65		H
ATOM 4772 N GLN B 127	-7.687	-17.118	-40.729	1.00	16.20		N
ANISOU 4772 N GLN B 127	1936	1617	2604	767	-246	-138	N
ATOM 4773 CA GLN B 127	-8.883	-16.441	-40.248	1.00	15.77		C
ANISOU 4773 CA GLN B 127	1968	1607	2419	670	-248	-56	C
ATOM 4774 C GLN B 127	-8.501	-15.080	-39.682	1.00	14.33		C
ANISOU 4774 C GLN B 127	1709	1532	2205	651	-288	-46	C
ATOM 4775 O GLN B 127	-7.573	-14.984	-38.871	1.00	14.69		O
ANISOU 4775 O GLN B 127	1698	1588	2294	727	-379	-40	O
ATOM 4776 CB GLN B 127	-9.594	-17.261	-39.168	1.00	16.82		C
ANISOU 4776 CB GLN B 127	2237	1651	2503	685	-317	46	C
ATOM 4777 CG GLN B 127	-10.081	-18.628	-39.610	1.00	18.54		C
ANISOU 4777 CG GLN B 127	2550	1740	2754	689	-281	45	C
ATOM 4778 CD GLN B 127	-10.517	-19.504	-38.435	1.00	19.72		C
ANISOU 4778 CD GLN B 127	2836	1786	2871	712	-361	158	C
ATOM 4779 OE1 GLN B 127	-9.713	-19.831	-37.559	1.00	20.86		O
ANISOU 4779 OE1 GLN B 127	2983	1886	3057	811	-470	207	O
ATOM 4780 NE2 GLN B 127	-11.790	-19.891	-38.420	1.00	19.66		N
ANISOU 4780 NE2 GLN B 127	2941	1742	2785	614	-311	202	N
ATOM 4781 H GLN B 127	-7.093	-17.238	-40.119	1.00	19.44		H
ATOM 4782 HA GLN B 127	-9.497	-16.306	-40.987	1.00	18.93		H
ATOM 4783 HB2 GLN B 127	-8.981	-17.394	-38.429	1.00	20.18		H
ATOM 4784 HB3 GLN B 127	-10.368	-16.761	-38.862	1.00	20.18		H
ATOM 4785 HG2 GLN B 127	-10.841	-18.518	-40.201	1.00	22.25		H
ATOM 4786 HG3 GLN B 127	-9.362	-19.085	-40.074	1.00	22.25		H
ATOM 4787 HE21 GLN B 127	-12.321	-19.647	-39.051	1.00	23.59		H
ATOM 4788 HE22 GLN B 127	-12.082	-20.384	-37.779	1.00	23.59		H
ATOM 4789 N TYR B 128	-9.218	-14.041	-40.110	1.00	13.48		N
ANISOU 4789 N TYR B 128	1599	1498	2025	551	-228	-45	N
ATOM 4790 CA TYR B 128	-9.108	-12.691	-39.564	1.00	13.05		C
ANISOU 4790 CA TYR B 128	1496	1526	1937	516	-257	-34	C
ATOM 4791 C TYR B 128	-10.324	-12.417	-38.689	1.00	12.77		C
ANISOU 4791 C TYR B 128	1558	1494	1802	467	-281	37	C
ATOM 4792 O TYR B 128	-11.458	-12.675	-39.102	1.00	12.09		O
ANISOU 4792 O TYR B 128	1540	1387	1666	410	-228	59	O
ATOM 4793 CB TYR B 128	-9.044	-11.632	-40.669	1.00	11.98		C
ANISOU 4793 CB TYR B 128	1290	1457	1804	440	-175	-82	C
ATOM 4794 CG TYR B 128	-7.787	-11.612	-41.517	1.00	12.06		C
ANISOU 4794 CG TYR B 128	1186	1495	1900	460	-132	-165	C
ATOM 4795 CD1 TYR B 128	-6.695	-12.428	-41.231	1.00	13.17		C
ANISOU 4795 CD1 TYR B 128	1263	1606	2134	561	-174	-209	C
ATOM 4796 CD2 TYR B 128	-7.699	-10.760	-42.613	1.00	12.19		C

ANISOU 4796	CD2 TYR B 128	1156	1569	1906	376	-47	-199	C
ATOM 4797	CE1 TYR B 128	-5.560	-12.386	-42.007	1.00	14.27		C
ANISOU 4797	CE1 TYR B 128	1279	1782	2361	576	-121	-302	C
ATOM 4798	CE2 TYR B 128	-6.574	-10.719	-43.389	1.00	14.06		C
ANISOU 4798	CE2 TYR B 128	1289	1844	2211	375	12	-281	C
ATOM 4799	CZ TYR B 128	-5.508	-11.527	-43.087	1.00	14.32		C
ANISOU 4799	CZ TYR B 128	1242	1856	2342	474	-19	-341	C
ATOM 4800	OH TYR B 128	-4.389	-11.472	-43.877	1.00	16.46		O
ANISOU 4800	OH TYR B 128	1389	2175	2689	470	53	-441	O
ATOM 4801	H TYR B 128	-9.798	-14.099	-40.742	1.00	16.18		H
ATOM 4802	HA TYR B 128	-8.309	-12.622	-39.019	1.00	15.66		H
ATOM 4803	HB2 TYR B 128	-9.793	-11.775	-41.269	1.00	14.37		H
ATOM 4804	HB3 TYR B 128	-9.127	-10.758	-40.256	1.00	14.37		H
ATOM 4805	HD1 TYR B 128	-6.731	-13.003	-40.501	1.00	15.80		H
ATOM 4806	HD2 TYR B 128	-8.417	-10.207	-42.820	1.00	14.63		H
ATOM 4807	HE1 TYR B 128	-4.835	-12.935	-41.809	1.00	17.12		H
ATOM 4808	HE2 TYR B 128	-6.530	-10.143	-44.117	1.00	16.88		H
ATOM 4809	HH TYR B 128	-4.498	-10.909	-44.491	1.00	19.75		H
ATOM 4810	N TRP B 129	-10.096	-11.871	-37.498	1.00	12.55		N
ANISOU 4810	N TRP B 129	1527	1500	1743	483	-356	61	N
ATOM 4811	CA TRP B 129	-11.174	-11.646	-36.548	1.00	12.64		C
ANISOU 4811	CA TRP B 129	1624	1522	1654	437	-370	113	C
ATOM 4812	C TRP B 129	-11.171	-10.217	-36.029	1.00	12.23		C
ANISOU 4812	C TRP B 129	1523	1545	1578	398	-382	86	C
ATOM 4813	O TRP B 129	-10.121	-9.676	-35.676	1.00	13.15		O
ANISOU 4813	O TRP B 129	1565	1699	1733	429	-436	52	O
ATOM 4814	CB TRP B 129	-11.059	-12.555	-35.321	1.00	13.90		C
ANISOU 4814	CB TRP B 129	1869	1646	1768	484	-455	177	C
ATOM 4815	CG TRP B 129	-10.980	-14.019	-35.562	1.00	14.96		C
ANISOU 4815	CG TRP B 129	2068	1680	1936	534	-465	214	C
ATOM 4816	CD1 TRP B 129	-9.854	-14.749	-35.818	1.00	15.47		C
ANISOU 4816	CD1 TRP B 129	2087	1691	2099	630	-514	197	C
ATOM 4817	CD2 TRP B 129	-12.061	-14.953	-35.509	1.00	15.55		C
ANISOU 4817	CD2 TRP B 129	2262	1686	1958	490	-427	269	C
ATOM 4818	NE1 TRP B 129	-10.174	-16.081	-35.946	1.00	16.45		N
ANISOU 4818	NE1 TRP B 129	2305	1704	2242	656	-511	239	N
ATOM 4819	CE2 TRP B 129	-11.521	-16.230	-35.759	1.00	16.55		C
ANISOU 4819	CE2 TRP B 129	2424	1704	2158	563	-457	286	C
ATOM 4820	CE3 TRP B 129	-13.437	-14.834	-35.283	1.00	15.29		C
ANISOU 4820	CE3 TRP B 129	2303	1670	1836	394	-368	297	C
ATOM 4821	CZ2 TRP B 129	-12.308	-17.382	-35.790	1.00	17.70		C
ANISOU 4821	CZ2 TRP B 129	2690	1750	2286	534	-428	336	C
ATOM 4822	CZ3 TRP B 129	-14.215	-15.982	-35.319	1.00	16.36		C
ANISOU 4822	CZ3 TRP B 129	2545	1722	1949	359	-336	344	C
ATOM 4823	CH2 TRP B 129	-13.648	-17.235	-35.572	1.00	17.39		C
ANISOU 4823	CH2 TRP B 129	2722	1737	2150	424	-367	366	C
ATOM 4824	H TRP B 129	-9.322	-11.622	-37.217	1.00	15.07		H
ATOM 4825	HA TRP B 129	-12.026	-11.815	-36.978	1.00	15.16		H
ATOM 4826	HB2 TRP B 129	-10.259	-12.303	-34.834	1.00	16.69		H
ATOM 4827	HB3 TRP B 129	-11.835	-12.401	-34.759	1.00	16.69		H
ATOM 4828	HD1 TRP B 129	-8.997	-14.397	-35.895	1.00	18.56		H
ATOM 4829	HE1 TRP B 129	-9.618	-16.715	-36.115	1.00	19.74		H
ATOM 4830	HE3 TRP B 129	-13.821	-14.004	-35.113	1.00	18.35		H

ATOM 4831	HZ2 TRP B 129	-11.936 -18.217 -35.965	1.00 21.24	H
ATOM 4832	HZ3 TRP B 129	-15.131 -15.917 -35.170	1.00 19.63	H
ATOM 4833	HH2 TRP B 129	-14.196 -17.986 -35.591	1.00 20.87	H
ATOM 4834	N SER B 130	-12.359 -9.629 -35.964	1.00 11.61	N
ANISOU 4834	N SER B 130	1481 1485 1446	331 -334 93	N
ATOM 4835	CA SER B 130	-12.655 -8.525 -35.059	1.00 11.58	C
ANISOU 4835	CA SER B 130	1469 1532 1400	298 -350 71	C
ATOM 4836	C SER B 130	-13.719 -9.028 -34.098	1.00 11.39	C
ANISOU 4836	C SER B 130	1542 1510 1275	268 -345 110	C
ATOM 4837	O SER B 130	-14.821 -9.374 -34.527	1.00 11.79	O
ANISOU 4837	O SER B 130	1632 1542 1308	228 -283 128	O
ATOM 4838	CB SER B 130	-13.154 -7.284 -35.801	1.00 11.34	C
ANISOU 4838	CB SER B 130	1384 1515 1409	249 -293 35	C
ATOM 4839	OG SER B 130	-12.111 -6.623 -36.497	1.00 11.85	O
ANISOU 4839	OG SER B 130	1364 1586 1552	256 -296 0	O
ATOM 4840	H SER B 130	-13.030 -9.859 -36.450	1.00 13.93	H
ATOM 4841	HA SER B 130	-11.861 -8.290 -34.553	1.00 13.90	H
ATOM 4842	HB2 SER B 130	-13.832 -7.555 -36.440	1.00 13.61	H
ATOM 4843	HB3 SER B 130	-13.538 -6.669 -35.157	1.00 13.61	H
ATOM 4844	HG SER B 130	-11.516 -6.378 -35.957	1.00 14.22	H
ATOM 4845	N VAL B 131	-13.394 -9.080 -32.809	1.00 11.69	N
ANISOU 4845	N VAL B 131	1619 1581 1241	279 -409 121	N
ATOM 4846	CA VAL B 131	-14.311 -9.590 -31.796	1.00 12.80	C
ANISOU 4846	CA VAL B 131	1863 1735 1264	236 -399 161	C
ATOM 4847	C VAL B 131	-14.618 -8.467 -30.817	1.00 13.13	C
ANISOU 4847	C VAL B 131	1894 1853 1243	191 -395 102	C
ATOM 4848	O VAL B 131	-13.709 -7.927 -30.179	1.00 15.46	O
ANISOU 4848	O VAL B 131	2158 2190 1526	213 -466 70	O
ATOM 4849	CB VAL B 131	-13.729 -10.806 -31.058	1.00 14.67	C
ANISOU 4849	CB VAL B 131	2189 1941 1444	276 -482 241	C
ATOM 4850	CG1 VAL B 131	-14.721 -11.320 -30.012	1.00 15.96	C
ANISOU 4850	CG1 VAL B 131	2475 2120 1468	208 -459 293	C
ATOM 4851	CG2 VAL B 131	-13.341 -11.892 -32.050	1.00 14.31	C
ANISOU 4851	CG2 VAL B 131	2145 1804 1486	331 -484 278	C
ATOM 4852	H VAL B 131	-12.637 -8.823 -32.493	1.00 14.03	H
ATOM 4853	HA VAL B 131	-15.140 -9.859 -32.220	1.00 15.36	H
ATOM 4854	HB VAL B 131	-12.925 -10.532 -30.592	1.00 17.60	H
ATOM 4855	HG11 VAL B 131	-14.334 -12.086 -29.560	1.00 19.15	H
ATOM 4856	HG12 VAL B 131	-14.898 -10.612 -29.372	1.00 19.15	H
ATOM 4857	HG13 VAL B 131	-15.543 -11.578 -30.457	1.00 19.15	H
ATOM 4858	HG21 VAL B 131	-12.977 -12.648 -31.564	1.00 17.17	H
ATOM 4859	HG22 VAL B 131	-14.130 -12.164 -32.545	1.00 17.17	H
ATOM 4860	HG23 VAL B 131	-12.674 -11.538 -32.660	1.00 17.17	H
ATOM 4861	N ARG B 132	-15.898 -8.134 -30.687	1.00 13.47	N
ANISOU 4861	N ARG B 132	1953 1915 1249	129 -311 76	N
ATOM 4862	CA ARG B 132	-16.304 -7.059 -29.794	1.00 14.13	C
ANISOU 4862	CA ARG B 132	2019 2065 1283	87 -288 -2	C
ATOM 4863	C ARG B 132	-15.879 -7.378 -28.363	1.00 15.69	C
ANISOU 4863	C ARG B 132	2299 2323 1341	70 -350 14	C
ATOM 4864	O ARG B 132	-16.009 -8.512 -27.891	1.00 14.79	O
ANISOU 4864	O ARG B 132	2286 2200 1133	56 -369 99	O
ATOM 4865	CB ARG B 132	-17.815 -6.859 -29.876	1.00 13.65	C
ANISOU 4865	CB ARG B 132	1957 2016 1213	29 -182 -35	C

ATOM 4866 CG ARG B 132	-18.276 -5.433 -29.576 1.00 13.66	C
ANISOU 4866 CG ARG B 132	1886 2052 1250 11 -140 -146	C
ATOM 4867 CD ARG B 132	-19.745 -5.272 -29.884 1.00 13.08	C
ANISOU 4867 CD ARG B 132	1782 1981 1208 -25 -44 -180	C
ATOM 4868 NE ARG B 132	-20.256 -3.913 -29.694 1.00 13.80	N
ANISOU 4868 NE ARG B 132	1793 2084 1365 -26 -3 -292	N
ATOM 4869 CZ ARG B 132	-20.674 -3.405 -28.538 1.00 15.12	C
ANISOU 4869 CZ ARG B 132	1968 2315 1462 -67 42 -385	C
ATOM 4870 NH1 ARG B 132	-20.632 -4.121 -27.425 1.00 16.16	N
ANISOU 4870 NH1 ARG B 132	2192 2516 1433 -120 49 -368	N
ATOM 4871 NH2 ARG B 132	-21.131 -2.160 -28.491 1.00 15.48	N
ANISOU 4871 NH2 ARG B 132	1933 2351 1599 -55 80 -496	N
ATOM 4872 H ARG B 132	-16.547 -8.514 -31.104 1.00 16.16	H
ATOM 4873 HA ARG B 132	-15.872 -6.235 -30.065 1.00 16.95	H
ATOM 4874 HB2 ARG B 132	-18.111 -7.083 -30.772 1.00 16.38	H
ATOM 4875 HB3 ARG B 132	-18.242 -7.448 -29.234 1.00 16.38	H
ATOM 4876 HG2 ARG B 132	-18.137 -5.239 -28.636 1.00 16.39	H
ATOM 4877 HG3 ARG B 132	-17.777 -4.810 -30.128 1.00 16.39	H
ATOM 4878 HD2 ARG B 132	-19.897 -5.518 -30.811 1.00 15.70	H
ATOM 4879 HD3 ARG B 132	-20.251 -5.861 -29.303 1.00 15.70	H
ATOM 4880 HE ARG B 132	-20.287 -3.402 -30.385 1.00 16.56	H
ATOM 4881 HH11 ARG B 132	-20.341 -4.930 -27.445 1.00 19.40	H
ATOM 4882 HH12 ARG B 132	-20.903 -3.779 -26.684 1.00 19.40	H
ATOM 4883 HH21 ARG B 132	-21.157 -1.684 -29.207 1.00 18.58	H
ATOM 4884 HH22 ARG B 132	-21.394 -1.826 -27.743 1.00 18.58	H
ATOM 4885 N GLN B 133	-15.356 -6.365 -27.673 1.00 15.82	N
ANISOU 4885 N GLN B 133	2277 2396 1337 64 -387 -65	N
ATOM 4886 CA GLN B 133	-14.805 -6.592 -26.342 1.00 17.19	C
ANISOU 4886 CA GLN B 133	2524 2641 1367 47 -467 -53	C
ATOM 4887 C GLN B 133	-15.882 -6.944 -25.326 1.00 18.40	C
ANISOU 4887 C GLN B 133	2782 2852 1357 -38 -401 -46	C
ATOM 4888 O GLN B 133	-15.579 -7.573 -24.305 1.00 18.59	O
ANISOU 4888 O GLN B 133	2910 2924 1230 -62 -467 14	O
ATOM 4889 CB GLN B 133	-14.030 -5.356 -25.886 1.00 18.43	C
ANISOU 4889 CB GLN B 133	2609 2851 1544 47 -517 -161	C
ATOM 4890 CG GLN B 133	-12.755 -5.129 -26.675 1.00 17.59	C
ANISOU 4890 CG GLN B 133	2406 2705 1573 116 -594 -161	C
ATOM 4891 CD GLN B 133	-11.939 -3.969 -26.162 1.00 17.87	C
ANISOU 4891 CD GLN B 133	2370 2793 1626 101 -648 -269	C
ATOM 4892 OE1 GLN B 133	-12.467 -3.037 -25.555 1.00 18.59	O
ANISOU 4892 OE1 GLN B 133	2462 2923 1678 44 -599 -368	O
ATOM 4893 NE2 GLN B 133	-10.632 -4.029 -26.384 1.00 18.18	N
ANISOU 4893 NE2 GLN B 133	2343 2834 1731 150 -748 -261	N
ATOM 4894 H GLN B 133	-15.308 -5.551 -27.948 1.00 18.98	H
ATOM 4895 HA GLN B 133	-14.182 -7.334 -26.384 1.00 20.63	H
ATOM 4896 HB2 GLN B 133	-14.592 -4.573 -25.994 1.00 22.12	H
ATOM 4897 HB3 GLN B 133	-13.788 -5.463 -24.952 1.00 22.12	H
ATOM 4898 HG2 GLN B 133	-12.206 -5.927 -26.622 1.00 21.11	H
ATOM 4899 HG3 GLN B 133	-12.986 -4.946 -27.599 1.00 21.11	H
ATOM 4900 HE21 GLN B 133	-10.297 -4.703 -26.799 1.00 21.82	H
ATOM 4901 HE22 GLN B 133	-10.120 -3.393 -26.112 1.00 21.82	H
ATOM 4902 N SER B 134	-17.121 -6.534 -25.573 1.00 19.44	N
ANISOU 4902 N SER B 134	2885 2985 1514 -86 -275 -107	N

ATOM 4903	CA	SER B 134	-18.269	-6.979	-24.806	1.00	20.78	C	
ANISOU 4903	CA	SER B 134	3137	3207	1549	-176	-184	-103	C
ATOM 4904	C	SER B 134	-19.396	-7.256	-25.787	1.00	17.89	C	
ANISOU 4904	C	SER B 134	2728	2787	1281	-188	-81	-96	C
ATOM 4905	O	SER B 134	-19.471	-6.641	-26.856	1.00	16.16	O	
ANISOU 4905	O	SER B 134	2404	2516	1219	-138	-66	-136	O
ATOM 4906	CB	SER B 134	-18.703	-5.931	-23.768	1.00	24.84	C	
ANISOU 4906	CB	SER B 134	3637	3821	1979	-240	-125	-240	C
ATOM 4907	OG	SER B 134	-19.112	-4.746	-24.427	1.00	26.00	O	
ANISOU 4907	OG	SER B 134	3656	3939	2283	-213	-64	-358	O
ATOM 4908	H	SER B 134	-17.324	-5.982	-26.200	1.00	23.32	H	
ATOM 4909	HA	SER B 134	-18.052	-7.803	-24.342	1.00	24.93	H	
ATOM 4910	HB2	SER B 134	-19.445	-6.281	-23.251	1.00	29.81	H	
ATOM 4911	HB3	SER B 134	-17.954	-5.730	-23.185	1.00	29.81	H	
ATOM 4912	HG	SER B 134	-19.350	-4.170	-23.863	1.00	31.20	H	
ATOM 4913	N	LYS B 135	-20.270	-8.189	-25.423	1.00	16.15	N	
ANISOU 4913	N	LYS B 135	2593	2581	962	-263	-14	-40	N
ATOM 4914	CA	LYS B 135	-21.340	-8.592	-26.327	1.00	15.53	C	
ANISOU 4914	CA	LYS B 135	2474	2458	970	-285	75	-31	C
ATOM 4915	C	LYS B 135	-22.213	-7.399	-26.701	1.00	15.36	C	
ANISOU 4915	C	LYS B 135	2318	2464	1055	-283	159	-164	C
ATOM 4916	O	LYS B 135	-22.598	-6.603	-25.841	1.00	16.29	O	
ANISOU 4916	O	LYS B 135	2413	2658	1121	-322	214	-270	O
ATOM 4917	CB	LYS B 135	-22.188	-9.685	-25.675	1.00	16.62	C	
ANISOU 4917	CB	LYS B 135	2723	2620	971	-391	147	32	C
ATOM 4918	CG	LYS B 135	-21.487	-11.020	-25.584	1.00	17.63	C	
ANISOU 4918	CG	LYS B 135	2987	2679	1034	-382	63	184	C
ATOM 4919	CD	LYS B 135	-22.352	-12.047	-24.882	1.00	18.45	C	
ANISOU 4919	CD	LYS B 135	3216	2797	998	-506	141	253	C
ATOM 4920	CE	LYS B 135	-21.609	-13.354	-24.677	1.00	19.70	C	
ANISOU 4920	CE	LYS B 135	3494	2858	1133	-473	43	405	C
ATOM 4921	NZ	LYS B 135	-22.493	-14.352	-24.027	1.00	20.09	N	
ANISOU 4921	NZ	LYS B 135	3619	2893	1122	-572	119	459	N
ATOM 4922	H	LYS B 135	-20.265	-8.599	-24.667	1.00	19.38	H	
ATOM 4923	HA	LYS B 135	-20.953	-8.952	-27.140	1.00	18.64	H	
ATOM 4924	HB2	LYS B 135	-22.417	-9.408	-24.774	1.00	19.94	H	
ATOM 4925	HB3	LYS B 135	-22.996	-9.808	-26.197	1.00	19.94	H	
ATOM 4926	HG2	LYS B 135	-21.296	-11.343	-26.479	1.00	21.16	H	
ATOM 4927	HG3	LYS B 135	-20.665	-10.918	-25.080	1.00	21.16	H	
ATOM 4928	HD2	LYS B 135	-22.611	-11.705	-24.012	1.00	22.14	H	
ATOM 4929	HD3	LYS B 135	-23.138	-12.226	-25.421	1.00	22.14	H	
ATOM 4930	HE2	LYS B 135	-21.329	-13.705	-25.536	1.00	23.64	H	
ATOM 4931	HE3	LYS B 135	-20.841	-13.203	-24.104	1.00	23.64	H	
ATOM 4932	HZ1	LYS B 135	-22.764	-14.048	-23.235	1.00	24.11	H	
ATOM 4933	HZ2	LYS B 135	-23.206	-14.504	-24.537	1.00	24.11	H	
ATOM 4934	HZ3	LYS B 135	-22.053	-15.116	-23.908	1.00	24.11	H	
ATOM 4935	N	ARG B 136	-22.532	-7.283	-27.981	1.00	15.40	N	
ANISOU 4935	N	ARG B 136	2237	2406	1210	-238	165	-161	N
ATOM 4936	CA	ARG B 136	-23.355	-6.170	-28.444	1.00	14.63	C	
ANISOU 4936	CA	ARG B 136	2010	2316	1234	-220	222	-269	C
ATOM 4937	C	ARG B 136	-24.815	-6.436	-28.101	1.00	14.71	C	
ANISOU 4937	C	ARG B 136	1994	2382	1211	-302	341	-320	C
ATOM 4938	O	ARG B 136	-25.295	-7.546	-28.330	1.00	15.48	O	

ANISOU 4938 O ARG B 136	2142 2472 1270 -355 370 -249	O
ATOM 4939 CB ARG B 136	-23.217 -5.991 -29.956 1.00 14.16	C
ANISOU 4939 CB ARG B 136	1877 2176 1327 -152 177 -233	C
ATOM 4940 CG ARG B 136	-23.796 -4.689 -30.495 1.00 14.59	C
ANISOU 4940 CG ARG B 136	1806 2216 1522 -110 196 -323	C
ATOM 4941 CD ARG B 136	-23.490 -4.544 -31.989 1.00 14.33	C
ANISOU 4941 CD ARG B 136	1728 2109 1608 -52 135 -263	C
ATOM 4942 NE ARG B 136	-23.826 -3.216 -32.503 1.00 14.12	N
ANISOU 4942 NE ARG B 136	1600 2047 1717 -3 126 -325	N
ATOM 4943 CZ ARG B 136	-23.467 -2.766 -33.700 1.00 14.15	C
ANISOU 4943 CZ ARG B 136	1570 1988 1819 44 69 -278	C
ATOM 4944 NH1 ARG B 136	-22.759 -3.535 -34.516 1.00 14.39	N
ANISOU 4944 NH1 ARG B 136	1647 1994 1824 45 28 -187	N
ATOM 4945 NH2 ARG B 136	-23.821 -1.542 -34.083 1.00 14.81	N
ANISOU 4945 NH2 ARG B 136	1575 2028 2025 87 55 -323	N
ATOM 4946 H ARG B 136	-22.289 -7.828 -28.599 1.00 18.48	H
ATOM 4947 HA ARG B 136	-23.076 -5.351 -28.006 1.00 17.56	H
ATOM 4948 HB2 ARG B 136	-22.275 -6.011 -30.185 1.00 16.99	H
ATOM 4949 HB3 ARG B 136	-23.677 -6.722 -30.398 1.00 16.99	H
ATOM 4950 HG2 ARG B 136	-24.758 -4.690 -30.377 1.00 17.51	H
ATOM 4951 HG3 ARG B 136	-23.397 -3.940 -30.026 1.00 17.51	H
ATOM 4952 HD2 ARG B 136	-22.543 -4.692 -32.134 1.00 17.20	H
ATOM 4953 HD3 ARG B 136	-24.009 -5.198 -32.483 1.00 17.20	H
ATOM 4954 HE ARG B 136	-24.286 -2.694 -31.998 1.00 16.94	H
ATOM 4955 HH11 ARG B 136	-22.530 -4.326 -34.270 1.00 17.26	H
ATOM 4956 HH12 ARG B 136	-22.528 -3.241 -35.290 1.00 17.26	H
ATOM 4957 HH21 ARG B 136	-24.280 -1.042 -33.556 1.00 17.77	H
ATOM 4958 HH22 ARG B 136	-23.588 -1.251 -34.858 1.00 17.77	H
ATOM 4959 N PRO B 137	-25.552 -5.453 -27.573 1.00 16.47	N
ANISOU 4959 N PRO B 137	2134 2660 1462 -315 415 -453	N
ATOM 4960 CA PRO B 137	-26.993 -5.646 -27.370 1.00 17.33	C
ANISOU 4960 CA PRO B 137	2184 2830 1572 -388 536 -521	C
ATOM 4961 C PRO B 137	-27.670 -6.038 -28.673 1.00 16.49	C
ANISOU 4961 C PRO B 137	2002 2674 1590 -366 528 -477	C
ATOM 4962 O PRO B 137	-27.296 -5.569 -29.748 1.00 15.61	O
ANISOU 4962 O PRO B 137	1835 2490 1605 -279 448 -449	O
ATOM 4963 CB PRO B 137	-27.474 -4.274 -26.880 1.00 19.39	C
ANISOU 4963 CB PRO B 137	2333 3130 1905 -362 594 -688	C
ATOM 4964 CG PRO B 137	-26.255 -3.614 -26.324 1.00 19.90	C
ANISOU 4964 CG PRO B 137	2454 3182 1924 -323 522 -705	C
ATOM 4965 CD PRO B 137	-25.115 -4.105 -27.170 1.00 18.08	C
ANISOU 4965 CD PRO B 137	2284 2870 1717 -266 397 -562	C
ATOM 4966 HA PRO B 137	-27.162 -6.318 -26.691 1.00 20.80	H
ATOM 4967 HB2 PRO B 137	-27.829 -3.767 -27.627 1.00 23.27	H
ATOM 4968 HB3 PRO B 137	-28.146 -4.390 -26.191 1.00 23.27	H
ATOM 4969 HG2 PRO B 137	-26.344 -2.651 -26.396 1.00 23.88	H
ATOM 4970 HG3 PRO B 137	-26.134 -3.879 -25.399 1.00 23.88	H
ATOM 4971 HD2 PRO B 137	-25.002 -3.539 -27.949 1.00 21.70	H
ATOM 4972 HD3 PRO B 137	-24.301 -4.156 -26.645 1.00 21.70	H
ATOM 4973 N THR B 138	-28.673 -6.903 -28.574 1.00 16.95	N
ANISOU 4973 N THR B 138	2061 2775 1605 -458 613 -471	N
ATOM 4974 CA THR B 138	-29.435 -7.317 -29.740 1.00 17.55	C
ANISOU 4974 CA THR B 138	2058 2821 1787 -456 608 -445	C

ATOM 4975 C THR B 138	-30.885 -6.887 -29.585 1.00 18.96	C
ANISOU 4975 C THR B 138	2089 3075 2039 -495 711 -572	C
ATOM 4976 O THR B 138	-31.356 -6.588 -28.484 1.00 20.85	O
ANISOU 4976 O THR B 138	2311 3395 2215 -552 814 -672	O
ATOM 4977 CB THR B 138	-29.364 -8.832 -29.953 1.00 17.32	C
ANISOU 4977 CB THR B 138	2146 2764 1672 -534 609 -328	C
ATOM 4978 OG1 THR B 138	-29.885 -9.508 -28.802 1.00 19.84	O
ANISOU 4978 OG1 THR B 138	2539 3150 1849 -661 715 -337	O
ATOM 4979 CG2 THR B 138	-27.929 -9.265 -30.189 1.00 15.30	C
ANISOU 4979 CG2 THR B 138	2013 2427 1374 -477 501 -214	C
ATOM 4980 H THR B 138	-28.932 -7.266 -27.838 1.00 20.34	H
ATOM 4981 HA THR B 138	-29.073 -6.883 -30.528 1.00 21.05	H
ATOM 4982 HB THR B 138	-29.888 -9.073 -30.733 1.00 20.79	H
ATOM 4983 HG1 THR B 138	-29.435 -9.306 -28.122 1.00 23.81	H
ATOM 4984 HG21 THR B 138	-27.890 -10.224 -30.324 1.00 18.36	H
ATOM 4985 HG22 THR B 138	-27.575 -8.821 -30.976 1.00 18.36	H
ATOM 4986 HG23 THR B 138	-27.382 -9.031 -29.423 1.00 18.36	H
ATOM 4987 N GLY B 139	-31.589 -6.863 -30.713 1.00 18.43	N
ANISOU 4987 N GLY B 139	1910 2989 2105 -464 682 -575	N
ATOM 4988 CA GLY B 139	-32.999 -6.534 -30.751 1.00 19.87	C
ANISOU 4988 CA GLY B 139	1926 3240 2384 -488 760 -691	C
ATOM 4989 C GLY B 139	-33.307 -5.186 -31.358 1.00 19.69	C
ANISOU 4989 C GLY B 139	1746 3188 2546 -362 700 -768	C
ATOM 4990 O GLY B 139	-34.480 -4.905 -31.638 1.00 21.35	O
ANISOU 4990 O GLY B 139	1797 3443 2874 -356 734 -856	O
ATOM 4991 H GLY B 139	-31.258 -7.039 -31.487 1.00 22.12	H
ATOM 4992 HA2 GLY B 139	-33.468 -7.210 -31.266 1.00 23.84	H
ATOM 4993 HA3 GLY B 139	-33.352 -6.544 -29.848 1.00 23.84	H
ATOM 4994 N SER B 140	-32.308 -4.337 -31.545 1.00 18.61	N
ANISOU 4994 N SER B 140	1648 2975 2446 -262 613 -741	N
ATOM 4995 CA SER B 140	-32.474 -3.053 -32.208 1.00 20.55	C
ANISOU 4995 CA SER B 140	1773 3163 2872 -139 539 -786	C
ATOM 4996 C SER B 140	-31.639 -3.043 -33.481 1.00 19.69	C
ANISOU 4996 C SER B 140	1719 2963 2798 -76 402 -650	C
ATOM 4997 O SER B 140	-30.787 -3.908 -33.703 1.00 19.49	O
ANISOU 4997 O SER B 140	1823 2920 2663 -115 373 -545	O
ATOM 4998 CB SER B 140	-32.065 -1.896 -31.289 1.00 21.20	C
ANISOU 4998 CB SER B 140	1847 3228 2981 -88 568 -890	C
ATOM 4999 OG SER B 140	-32.908 -1.832 -30.159 1.00 23.35	O
ANISOU 4999 OG SER B 140	2055 3594 3222 -149 706 -1036	O
ATOM 5000 H SER B 140	-31.501 -4.487 -31.289 1.00 22.33	H
ATOM 5001 HA SER B 140	-33.405 -2.935 -32.452 1.00 24.66	H
ATOM 5002 HB2 SER B 140	-31.151 -2.034 -30.995 1.00 25.44	H
ATOM 5003 HB3 SER B 140	-32.133 -1.063 -31.781 1.00 25.44	H
ATOM 5004 HG SER B 140	-32.676 -1.196 -29.662 1.00 28.02	H
ATOM 5005 N ASN B 141	-31.894 -2.057 -34.334 1.00 19.00	N
ANISOU 5005 N ASN B 141	1534 2817 2867 22 319 -654	N
ATOM 5006 CA ASN B 141	-31.125 -1.941 -35.561 1.00 17.14	C
ANISOU 5006 CA ASN B 141	1353 2503 2656 71 197 -528	C
ATOM 5007 C ASN B 141	-29.665 -1.669 -35.234 1.00 16.87	C
ANISOU 5007 C ASN B 141	1442 2412 2555 85 174 -483	C
ATOM 5008 O ASN B 141	-29.347 -0.812 -34.400 1.00 16.84	O
ANISOU 5008 O ASN B 141	1433 2387 2578 115 202 -561	O

ATOM 5009 CB ASN B 141	-31.695 -0.833 -36.441 1.00 16.72	C
ANISOU 5009 CB ASN B 141	1183 2392 2778 170 107 -532	C
ATOM 5010 CG ASN B 141	-33.042 -1.190 -37.031 1.00 18.10	C
ANISOU 5010 CG ASN B 141	1230 2626 3020 162 92 -554	C
ATOM 5011 OD1 ASN B 141	-33.578 -2.279 -36.799 1.00 16.91	O
ANISOU 5011 OD1 ASN B 141	1075 2562 2789 71 161 -573	O
ATOM 5012 ND2 ASN B 141	-33.611 -0.259 -37.792 1.00 18.74	N
ANISOU 5012 ND2 ASN B 141	1203 2660 3258 257 -4 -550	N
ATOM 5013 H ASN B 141	-32.497 -1.453 -34.226 1.00 22.80	H
ATOM 5014 HA ASN B 141	-31.177 -2.776 -36.052 1.00 20.57	H
ATOM 5015 HB2 ASN B 141	-31.804 -0.030 -35.907 1.00 20.07	H
ATOM 5016 HB3 ASN B 141	-31.082 -0.664 -37.173 1.00 20.07	H
ATOM 5017 HD21 ASN B 141	-34.377 -0.408 -38.153 1.00 22.49	H
ATOM 5018 HD22 ASN B 141	-33.212 0.492 -37.922 1.00 22.49	H
ATOM 5019 N ALA B 142	-28.778 -2.417 -35.886 1.00 14.50	N
ANISOU 5019 N ALA B 142	1245 2092 2173 60 127 -371	N
ATOM 5020 CA ALA B 142	-27.344 -2.314 -35.687 1.00 14.47	C
ANISOU 5020 CA ALA B 142	1344 2044 2108 69 100 -325	C
ATOM 5021 C ALA B 142	-26.643 -2.234 -37.035 1.00 14.55	C
ANISOU 5021 C ALA B 142	1385 1997 2146 97 13 -221	C
ATOM 5022 O ALA B 142	-27.162 -2.702 -38.053 1.00 13.99	O
ANISOU 5022 O ALA B 142	1295 1937 2085 85 -20 -169	O
ATOM 5023 CB ALA B 142	-26.810 -3.516 -34.887 1.00 14.74	C
ANISOU 5023 CB ALA B 142	1484 2124 1992 0 150 -303	C
ATOM 5024 H ALA B 142	-28.996 -3.011 -36.469 1.00 17.40	H
ATOM 5025 HA ALA B 142	-27.146 -1.505 -35.191 1.00 17.36	H
ATOM 5026 HB1 ALA B 142	-25.852 -3.417 -34.771 1.00 17.69	H
ATOM 5027 HB2 ALA B 142	-27.248 -3.538 -34.022 1.00 17.69	H
ATOM 5028 HB3 ALA B 142	-27.002 -4.331 -35.376 1.00 17.69	H
ATOM 5029 N THR B 143	-25.460 -1.628 -37.032 1.00 14.50	N
ANISOU 5029 N THR B 143	1425 1937 2146 124 -21 -197	N
ATOM 5030 CA THR B 143	-24.664 -1.453 -38.238 1.00 14.24	C
ANISOU 5030 CA THR B 143	1425 1854 2130 137 -88 -107	C
ATOM 5031 C THR B 143	-23.253 -1.972 -38.005 1.00 11.88	C
ANISOU 5031 C THR B 143	1210 1555 1751 116 -84 -77	C
ATOM 5032 O THR B 143	-22.684 -1.802 -36.919 1.00 11.66	O
ANISOU 5032 O THR B 143	1202 1534 1694 117 -63 -127	O
ATOM 5033 CB THR B 143	-24.617 0.028 -38.661 1.00 15.92	C
ANISOU 5033 CB THR B 143	1594 1988 2468 190 -139 -105	C
ATOM 5034 OG1 THR B 143	-25.940 0.477 -38.975 1.00 17.72	O
ANISOU 5034 OG1 THR B 143	1734 2210 2789 225 -161 -125	O
ATOM 5035 CG2 THR B 143	-23.728 0.231 -39.896 1.00 16.47	C
ANISOU 5035 CG2 THR B 143	1710 2012 2535 182 -196 -3	C
ATOM 5036 H THR B 143	-25.091 -1.303 -36.327 1.00 17.40	H
ATOM 5037 HA THR B 143	-25.061 -1.964 -38.961 1.00 17.09	H
ATOM 5038 HB THR B 143	-24.259 0.561 -37.933 1.00 19.11	H
ATOM 5039 HG1 THR B 143	-26.256 0.020 -39.605 1.00 21.27	H
ATOM 5040 HG21 THR B 143	-23.713 1.168 -40.143 1.00 19.76	H
ATOM 5041 HG22 THR B 143	-22.823 -0.059 -39.703 1.00 19.76	H
ATOM 5042 HG23 THR B 143	-24.073 -0.287 -40.640 1.00 19.76	H
ATOM 5043 N ILE B 144	-22.704 -2.632 -39.020 1.00 11.03	N
ANISOU 5043 N ILE B 144	1142 1444 1603 98 -107 -4	N
ATOM 5044 CA ILE B 144	-21.282 -2.955 -39.086 1.00 11.29	C

ANISOU 5044	CA	ILE B 144	1229	1467	1594	93	-114	24	C
ATOM 5045	C	ILE B 144	-20.719	-2.212	-40.286	1.00	10.91		C
ANISOU 5045	C	ILE B 144	1173	1377	1594	94	-151	76	C
ATOM 5046	O	ILE B 144	-21.076	-2.503	-41.435	1.00	11.29		O
ANISOU 5046	O	ILE B 144	1227	1433	1629	75	-167	128	O
ATOM 5047	CB	ILE B 144	-21.024	-4.465	-39.192	1.00	12.04		C
ANISOU 5047	CB	ILE B 144	1380	1590	1604	67	-94	50	C
ATOM 5048	CG1	ILE B 144	-21.433	-5.152	-37.883	1.00	13.04		C
ANISOU 5048	CG1	ILE B 144	1535	1748	1671	53	-58	14	C
ATOM 5049	CG2	ILE B 144	-19.547	-4.741	-39.483	1.00	10.76		C
ANISOU 5049	CG2	ILE B 144	1249	1414	1426	75	-107	72	C
ATOM 5050	CD1	ILE B 144	-21.419	-6.685	-37.949	1.00	13.41		C
ANISOU 5050	CD1	ILE B 144	1647	1802	1647	24	-39	47	C
ATOM 5051	H	ILE B 144	-23.148	-2.911	-39.701	1.00	13.23		H
ATOM 5052	HA	ILE B 144	-20.841	-2.626	-38.288	1.00	13.55		H
ATOM 5053	HB	ILE B 144	-21.560	-4.825	-39.916	1.00	14.45		H
ATOM 5054	HG12	ILE B 144	-20.818	-4.880	-37.184	1.00	15.65		H
ATOM 5055	HG13	ILE B 144	-22.334	-4.874	-37.654	1.00	15.65		H
ATOM 5056	HG21	ILE B 144	-19.412	-5.699	-39.545	1.00	12.91		H
ATOM 5057	HG22	ILE B 144	-19.307	-4.317	-40.322	1.00	12.91		H
ATOM 5058	HG23	ILE B 144	-19.010	-4.376	-38.762	1.00	12.91		H
ATOM 5059	HD11	ILE B 144	-21.688	-7.040	-37.087	1.00	16.09		H
ATOM 5060	HD12	ILE B 144	-22.039	-6.977	-38.635	1.00	16.09		H
ATOM 5061	HD13	ILE B 144	-20.522	-6.983	-38.165	1.00	16.09		H
ATOM 5062	N	THR B 145	-19.859	-1.238	-40.013	1.00	11.76		N
ANISOU 5062	N	THR B 145	1273	1446	1750	105	-164	61	N
ATOM 5063	CA	THR B 145	-19.228	-0.413	-41.034	1.00	12.54		C
ANISOU 5063	CA	THR B 145	1372	1498	1893	90	-189	113	C
ATOM 5064	C	THR B 145	-17.936	-1.129	-41.386	1.00	10.53		C
ANISOU 5064	C	THR B 145	1144	1272	1584	64	-170	127	C
ATOM 5065	O	THR B 145	-16.912	-0.977	-40.719	1.00	10.93		O
ANISOU 5065	O	THR B 145	1187	1323	1643	66	-165	88	O
ATOM 5066	CB	THR B 145	-18.983	0.997	-40.519	1.00	13.52		C
ANISOU 5066	CB	THR B 145	1470	1555	2110	105	-205	79	C
ATOM 5067	OG1	THR B 145	-20.227	1.583	-40.101	1.00	14.59		O
ANISOU 5067	OG1	THR B 145	1569	1664	2312	144	-216	44	O
ATOM 5068	CG2	THR B 145	-18.339	1.863	-41.604	1.00	14.20		C
ANISOU 5068	CG2	THR B 145	1571	1582	2241	73	-227	147	C
ATOM 5069	H	THR B 145	-19.617	-1.030	-39.214	1.00	14.11		H
ATOM 5070	HA	THR B 145	-19.791	-0.370	-41.823	1.00	15.04		H
ATOM 5071	HB	THR B 145	-18.378	0.960	-39.762	1.00	16.22		H
ATOM 5072	HG1	THR B 145	-20.570	1.122	-39.488	1.00	17.51		H
ATOM 5073	HG21	THR B 145	-18.187	2.759	-41.267	1.00	17.03		H
ATOM 5074	HG22	THR B 145	-17.489	1.479	-41.873	1.00	17.03		H
ATOM 5075	HG23	THR B 145	-18.922	1.912	-42.378	1.00	17.03		H
ATOM 5076	N	PHE B 146	-17.999	-1.969	-42.417	1.00	10.53		N
ANISOU 5076	N	PHE B 146	1170	1302	1529	39	-160	170	N
ATOM 5077	CA	PHE B 146	-16.917	-2.927	-42.620	1.00	10.41		C
ANISOU 5077	CA	PHE B 146	1171	1318	1467	27	-130	160	C
ATOM 5078	C	PHE B 146	-15.620	-2.240	-43.033	1.00	11.30		C
ANISOU 5078	C	PHE B 146	1265	1419	1611	1	-120	162	C
ATOM 5079	O	PHE B 146	-14.536	-2.778	-42.788	1.00	11.96		O
ANISOU 5079	O	PHE B 146	1331	1523	1688	8	-101	126	O

ATOM 5080 CB PHE B 146	-17.334	-3.974	-43.651	1.00	10.64	C
ANISOU 5080 CB PHE B 146	1232	1379	1433	1	-113 186	C
ATOM 5081 CG PHE B 146	-16.371	-5.123	-43.792	1.00	10.35	C
ANISOU 5081 CG PHE B 146	1209	1362	1362	3	-77 157	C
ATOM 5082 CD1 PHE B 146	-15.863	-5.770	-42.674	1.00	11.02	C
ANISOU 5082 CD1 PHE B 146	1293	1441	1453	47	-80 119	C
ATOM 5083 CD2 PHE B 146	-15.999	-5.576	-45.047	1.00	11.62	C
ANISOU 5083 CD2 PHE B 146	1384	1545	1484	-37	-45 165	C
ATOM 5084 CE1 PHE B 146	-14.996	-6.843	-42.806	1.00	12.12	C
ANISOU 5084 CE1 PHE B 146	1440	1583	1583	66	-59 94	C
ATOM 5085 CE2 PHE B 146	-15.132	-6.644	-45.187	1.00	11.74	C
ANISOU 5085 CE2 PHE B 146	1402	1571	1488	-25	-7 121	C
ATOM 5086 CZ PHE B 146	-14.627	-7.276	-44.063	1.00	11.85	C
ANISOU 5086 CZ PHE B 146	1408	1564	1531	34	-18 87	C
ATOM 5087 H PHE B 146	-18.635	-2.006	-42.995	1.00	12.64	H
ATOM 5088 HA PHE B 146	-16.751	-3.388	-41.783	1.00	12.49	H
ATOM 5089 HB2 PHE B 146	-18.194	-4.340	-43.392	1.00	12.77	H
ATOM 5090 HB3 PHE B 146	-17.409	-3.544	-44.518	1.00	12.77	H
ATOM 5091 HD1 PHE B 146	-16.111	-5.482	-41.825	1.00	13.22	H
ATOM 5092 HD2 PHE B 146	-16.336	-5.156	-45.805	1.00	13.94	H
ATOM 5093 HE1 PHE B 146	-14.657	-7.264	-42.050	1.00	14.54	H
ATOM 5094 HE2 PHE B 146	-14.885	-6.934	-46.035	1.00	14.09	H
ATOM 5095 HZ PHE B 146	-14.041	-7.993	-44.156	1.00	14.22	H
ATOM 5096 N SER B 147	-15.698	-1.066	-43.659	1.00	11.59	N
ANISOU 5096 N SER B 147	1300	1417	1687	-32	-133 204	N
ATOM 5097 CA SER B 147	-14.464	-0.384	-44.044	1.00	12.12	C
ANISOU 5097 CA SER B 147	1350	1471	1783	-77	-111 206	C
ATOM 5098 C SER B 147	-13.570	-0.120	-42.838	1.00	11.70	C
ANISOU 5098 C SER B 147	1253	1413	1780	-54	-115 133	C
ATOM 5099 O SER B 147	-12.344	-0.148	-42.963	1.00	11.67	O
ANISOU 5099 O SER B 147	1213	1431	1788	-82	-89 105	O
ATOM 5100 CB SER B 147	-14.767	0.922	-44.781	1.00	12.14	C
ANISOU 5100 CB SER B 147	1375	1412	1827	-120	-132 276	C
ATOM 5101 OG SER B 147	-15.149	1.993	-43.919	1.00	11.98	O
ANISOU 5101 OG SER B 147	1338	1318	1895	-90	-168 256	O
ATOM 5102 H SER B 147	-16.425	-0.656	-43.866	1.00	13.91	H
ATOM 5103 HA SER B 147	-13.972	-0.956	-44.653	1.00	14.54	H
ATOM 5104 HB2 SER B 147	-13.972	1.190	-45.269	1.00	14.57	H
ATOM 5105 HB3 SER B 147	-15.490	0.760	-45.407	1.00	14.57	H
ATOM 5106 HG SER B 147	-14.532	2.156	-43.373	1.00	14.37	H
ATOM 5107 N ASN B 148	-14.152	0.143	-41.665	1.00	10.70	N
ANISOU 5107 N ASN B 148	1120	1268	1679	-10	-146 94	N
ATOM 5108 CA ASN B 148	-13.325	0.378	-40.487	1.00	11.31	C
ANISOU 5108 CA ASN B 148	1161	1354	1784	5	-160 21	C
ATOM 5109 C ASN B 148	-12.492	-0.853	-40.150	1.00	10.08	C
ANISOU 5109 C ASN B 148	990	1261	1580	31	-159 -8	C
ATOM 5110 O ASN B 148	-11.310	-0.742	-39.813	1.00	9.60	O
ANISOU 5110 O ASN B 148	880	1220	1546	25	-167 -51	O
ATOM 5111 CB ASN B 148	-14.195	0.776	-39.301	1.00	11.84	C
ANISOU 5111 CB ASN B 148	1234	1403	1862	40	-184 -25	C
ATOM 5112 CG ASN B 148	-14.749	2.183	-39.425	1.00	13.02	C
ANISOU 5112 CG ASN B 148	1379	1470	2097	27	-193 -25	C
ATOM 5113 OD1 ASN B 148	-14.162	3.057	-40.082	1.00	12.87	O

ANISOU 5113	OD1 ASN B 148	1355	1399	2137	-17	-190	1	O
ATOM 5114	ND2 ASN B 148	-15.884	2.419	-38.769	1.00	14.07		N
ANISOU 5114	ND2 ASN B 148	1514	1586	2244	63	-199	-57	N
ATOM 5115	H ASN B 148	-15.000	0.189	-41.530	1.00	12.84		H
ATOM 5116	HA ASN B 148	-12.716	1.110	-40.671	1.00	13.57		H
ATOM 5117	HB2 ASN B 148	-14.944	0.163	-39.238	1.00	14.21		H
ATOM 5118	HB3 ASN B 148	-13.663	0.734	-38.490	1.00	14.21		H
ATOM 5119	HD21 ASN B 148	-16.246	3.198	-38.803	1.00	16.88		H
ATOM 5120	HD22 ASN B 148	-16.255	1.792	-38.312	1.00	16.88		H
ATOM 5121	N HIS B 149	-13.085	-2.041	-40.265	1.00	10.27		N
ANISOU 5121	N HIS B 149	1050	1309	1543	61	-152	16	N
ATOM 5122	CA HIS B 149	-12.356	-3.262	-39.952	1.00	10.06		C
ANISOU 5122	CA HIS B 149	1018	1319	1486	98	-159	-3	C
ATOM 5123	C HIS B 149	-11.298	-3.573	-41.006	1.00	10.21		C
ANISOU 5123	C HIS B 149	997	1354	1527	79	-122	-8	C
ATOM 5124	O HIS B 149	-10.139	-3.849	-40.668	1.00	10.32		O
ANISOU 5124	O HIS B 149	956	1392	1571	102	-136	-52	O
ATOM 5125	CB HIS B 149	-13.346	-4.411	-39.798	1.00	10.41		C
ANISOU 5125	CB HIS B 149	1123	1365	1468	124	-156	23	C
ATOM 5126	CG HIS B 149	-14.328	-4.202	-38.690	1.00	9.92		C
ANISOU 5126	CG HIS B 149	1090	1301	1376	134	-175	15	C
ATOM 5127	ND1 HIS B 149	-14.084	-4.613	-37.400	1.00	10.39		N
ANISOU 5127	ND1 HIS B 149	1169	1383	1397	163	-209	-7	N
ATOM 5128	CD2 HIS B 149	-15.544	-3.603	-38.672	1.00	9.83		C
ANISOU 5128	CD2 HIS B 149	1089	1277	1369	118	-163	21	C
ATOM 5129	CE1 HIS B 149	-15.117	-4.302	-36.639	1.00	10.87		C
ANISOU 5129	CE1 HIS B 149	1254	1449	1426	152	-202	-21	C
ATOM 5130	NE2 HIS B 149	-16.014	-3.680	-37.385	1.00	9.72		N
ANISOU 5130	NE2 HIS B 149	1095	1282	1318	130	-172	-11	N
ATOM 5131	H HIS B 149	-13.897	-2.163	-40.519	1.00	12.33		H
ATOM 5132	HA HIS B 149	-11.903	-3.146	-39.102	1.00	12.07		H
ATOM 5133	HB2 HIS B 149	-13.845	-4.507	-40.625	1.00	12.49		H
ATOM 5134	HB3 HIS B 149	-12.855	-5.226	-39.612	1.00	12.49		H
ATOM 5135	HD1 HIS B 149	-13.378	-5.027	-37.135	1.00	12.47		H
ATOM 5136	HD2 HIS B 149	-15.981	-3.221	-39.397	1.00	11.80		H
ATOM 5137	HE1 HIS B 149	-15.193	-4.475	-35.728	1.00	13.04		H
ATOM 5138	N VAL B 150	-11.671	-3.530	-42.291	1.00	10.32		N
ANISOU 5138	N VAL B 150	1034	1365	1524	33	-77	30	N
ATOM 5139	CA VAL B 150	-10.688	-3.784	-43.340	1.00	10.63		C
ANISOU 5139	CA VAL B 150	1036	1431	1570	-2	-23	13	C
ATOM 5140	C VAL B 150	-9.541	-2.784	-43.247	1.00	10.35		C
ANISOU 5140	C VAL B 150	930	1404	1598	-40	-14	-20	C
ATOM 5141	O VAL B 150	-8.367	-3.151	-43.356	1.00	10.61		O
ANISOU 5141	O VAL B 150	893	1474	1666	-36	10	-75	O
ATOM 5142	CB VAL B 150	-11.349	-3.750	-44.729	1.00	11.12		C
ANISOU 5142	CB VAL B 150	1147	1498	1578	-63	20	64	C
ATOM 5143	CG1 VAL B 150	-10.302	-3.971	-45.819	1.00	11.87		C
ANISOU 5143	CG1 VAL B 150	1207	1636	1665	-115	94	34	C
ATOM 5144	CG2 VAL B 150	-12.436	-4.795	-44.829	1.00	10.39		C
ANISOU 5144	CG2 VAL B 150	1113	1404	1429	-34	11	80	C
ATOM 5145	H VAL B 150	-12.466	-3.361	-42.572	1.00	12.39		H
ATOM 5146	HA VAL B 150	-10.318	-4.671	-43.211	1.00	12.75		H
ATOM 5147	HB VAL B 150	-11.753	-2.879	-44.869	1.00	13.34		H

ATOM 5148	HG11 VAL B 150	-10.738	-3.946	-46.685	1.00	14.24		H
ATOM 5149	HG12 VAL B 150	-9.635	-3.268	-45.763	1.00	14.24		H
ATOM 5150	HG13 VAL B 150	-9.884	-4.836	-45.683	1.00	14.24		H
ATOM 5151	HG21 VAL B 150	-12.835	-4.752	-45.712	1.00	12.46		H
ATOM 5152	HG22 VAL B 150	-12.046	-5.671	-44.684	1.00	12.46		H
ATOM 5153	HG23 VAL B 150	-13.109	-4.616	-44.152	1.00	12.46		H
ATOM 5154	N ASN B 151	-9.857	-1.500	-43.064	1.00	10.72		N
ANISOU 5154	N ASN B 151	988	1413	1673	-81	-32	6	N
ATOM 5155	CA ASN B 151	-8.792	-0.504	-43.031	1.00	10.99		C
ANISOU 5155	CA ASN B 151	960	1444	1773	-137	-18	-27	C
ATOM 5156	C ASN B 151	-7.897	-0.707	-41.813	1.00	11.86		C
ANISOU 5156	C ASN B 151	995	1584	1926	-88	-64	-106	C
ATOM 5157	O ASN B 151	-6.668	-0.575	-41.906	1.00	11.82		O
ANISOU 5157	O ASN B 151	904	1615	1972	-117	-43	-160	O
ATOM 5158	CB ASN B 151	-9.388	0.903	-43.052	1.00	11.54		C
ANISOU 5158	CB ASN B 151	1068	1441	1877	-186	-33	17	C
ATOM 5159	CG ASN B 151	-10.054	1.234	-44.383	1.00	12.75		C
ANISOU 5159	CG ASN B 151	1287	1567	1990	-244	-2	109	C
ATOM 5160	OD1 ASN B 151	-9.697	0.679	-45.424	1.00	12.53		O
ANISOU 5160	OD1 ASN B 151	1264	1587	1910	-286	53	127	O
ATOM 5161	ND2 ASN B 151	-11.006	2.169	-44.359	1.00	13.34		N
ANISOU 5161	ND2 ASN B 151	1413	1566	2092	-247	-40	165	N
ATOM 5162	H ASN B 151	-10.653	-1.191	-42.961	1.00	12.87		H
ATOM 5163	HA ASN B 151	-8.242	-0.606	-43.823	1.00	13.19		H
ATOM 5164	HB2 ASN B 151	-10.059	0.974	-42.355	1.00	13.85		H
ATOM 5165	HB3 ASN B 151	-8.681	1.550	-42.900	1.00	13.85		H
ATOM 5166	HD21 ASN B 151	-11.411	2.390	-45.086	1.00	16.01		H
ATOM 5167	HD22 ASN B 151	-11.216	2.551	-43.618	1.00	16.01		H
ATOM 5168	N ALA B 152	-8.491	-1.039	-40.662	1.00	12.14		N
ANISOU 5168	N ALA B 152	1060	1614	1938	-20	-127	-117	N
ATOM 5169	CA ALA B 152	-7.688	-1.321	-39.473	1.00	11.04		C
ANISOU 5169	CA ALA B 152	865	1513	1817	28	-189	-180	C
ATOM 5170	C ALA B 152	-6.839	-2.567	-39.676	1.00	11.98		C
ANISOU 5170	C ALA B 152	934	1678	1941	82	-190	-203	C
ATOM 5171	O ALA B 152	-5.642	-2.580	-39.363	1.00	12.13		O
ANISOU 5171	O ALA B 152	857	1738	2015	93	-216	-263	O
ATOM 5172	CB ALA B 152	-8.592	-1.493	-38.251	1.00	10.66		C
ANISOU 5172	CB ALA B 152	879	1457	1714	77	-247	-177	C
ATOM 5173	H ALA B 152	-9.341	-1.106	-40.547	1.00	14.56		H
ATOM 5174	HA ALA B 152	-7.093	-0.573	-39.307	1.00	13.25		H
ATOM 5175	HB1 ALA B 152	-8.040	-1.679	-37.475	1.00	12.79		H
ATOM 5176	HB2 ALA B 152	-9.094	-0.675	-38.112	1.00	12.79		H
ATOM 5177	HB3 ALA B 152	-9.200	-2.232	-38.409	1.00	12.79		H
ATOM 5178	N TRP B 153	-7.450	-3.632	-40.194	1.00	11.46		N
ANISOU 5178	N TRP B 153	925	1600	1828	118	-165	-163	N
ATOM 5179	CA TRP B 153	-6.722	-4.876	-40.408	1.00	11.85		C
ANISOU 5179	CA TRP B 153	935	1671	1898	180	-164	-190	C
ATOM 5180	C TRP B 153	-5.463	-4.650	-41.244	1.00	12.43		C
ANISOU 5180	C TRP B 153	896	1784	2043	143	-106	-251	C
ATOM 5181	O TRP B 153	-4.367	-5.073	-40.861	1.00	14.33		O
ANISOU 5181	O TRP B 153	1040	2059	2348	195	-141	-312	O
ATOM 5182	CB TRP B 153	-7.640	-5.907	-41.070	1.00	12.22		C
ANISOU 5182	CB TRP B 153	1066	1688	1890	198	-126	-147	C

ATOM 5183 CG TRP B 153	-8.748 -6.426 -40.194 1.00 12.04	C
ANISOU 5183 CG TRP B 153	1138 1632 1804 237 -176 -99	C
ATOM 5184 CD1 TRP B 153	-8.890 -6.263 -38.845 1.00 12.58	C
ANISOU 5184 CD1 TRP B 153	1226 1703 1849 268 -251 -92	C
ATOM 5185 CD2 TRP B 153	-9.880 -7.197 -40.624 1.00 12.47	C
ANISOU 5185 CD2 TRP B 153	1279 1655 1802 234 -147 -56	C
ATOM 5186 NE1 TRP B 153	-10.040 -6.879 -38.415 1.00 12.25	N
ANISOU 5186 NE1 TRP B 153	1280 1636 1739 280 -260 -45	N
ATOM 5187 CE2 TRP B 153	-10.663 -7.462 -39.486 1.00 11.22	C
ANISOU 5187 CE2 TRP B 153	1187 1480 1595 260 -198 -23	C
ATOM 5188 CE3 TRP B 153	-10.303 -7.686 -41.863 1.00 13.17	C
ANISOU 5188 CE3 TRP B 153	1396 1735 1871 201 -80 -48	C
ATOM 5189 CZ2 TRP B 153	-11.853 -8.182 -39.549 1.00 11.83	C
ANISOU 5189 CZ2 TRP B 153	1347 1530 1617 251 -180 17	C
ATOM 5190 CZ3 TRP B 153	-11.490 -8.407 -41.926 1.00 12.64	C
ANISOU 5190 CZ3 TRP B 153	1412 1640 1749 197 -75 -12	C
ATOM 5191 CH2 TRP B 153	-12.245 -8.652 -40.773 1.00 11.54	C
ANISOU 5191 CH2 TRP B 153	1328 1481 1575 221 -122 20	C
ATOM 5192 H TRP B 153	-8.277 -3.659 -40.427 1.00 13.75	H
ATOM 5193 HA TRP B 153	-6.448 -5.230 -39.548 1.00 14.23	H
ATOM 5194 HB2 TRP B 153	-8.049 -5.500 -41.849 1.00 14.67	H
ATOM 5195 HB3 TRP B 153	-7.103 -6.667 -41.344 1.00 14.67	H
ATOM 5196 HD1 TRP B 153	-8.297 -5.800 -38.298 1.00 15.09	H
ATOM 5197 HE1 TRP B 153	-10.321 -6.899 -37.603 1.00 14.70	H
ATOM 5198 HE3 TRP B 153	-9.807 -7.521 -42.633 1.00 15.80	H
ATOM 5199 HZ2 TRP B 153	-12.355 -8.351 -38.785 1.00 14.19	H
ATOM 5200 HZ3 TRP B 153	-11.782 -8.738 -42.744 1.00 15.16	H
ATOM 5201 HH2 TRP B 153	-13.032 -9.143 -40.841 1.00 13.84	H
ATOM 5202 N LYS B 154	-5.586 -3.976 -42.389 1.00 12.40	N
ANISOU 5202 N LYS B 154	900 1782 2028 49 -19 -236	N
ATOM 5203 CA LYS B 154	-4.403 -3.829 -43.228 1.00 13.97	C
ANISOU 5203 CA LYS B 154	996 2030 2282 -4 57 -298	C
ATOM 5204 C LYS B 154	-3.348 -2.947 -42.570 1.00 14.34	C
ANISOU 5204 C LYS B 154	933 2106 2408 -32 26 -356	C
ATOM 5205 O LYS B 154	-2.152 -3.187 -42.757 1.00 15.50	O
ANISOU 5205 O LYS B 154	953 2308 2628 -30 53 -437	O
ATOM 5206 CB LYS B 154	-4.787 -3.306 -44.613 1.00 15.91	C
ANISOU 5206 CB LYS B 154	1293 2276 2474 -115 158 -256	C
ATOM 5207 CG LYS B 154	-5.202 -1.872 -44.672 1.00 16.34	C
ANISOU 5207 CG LYS B 154	1394 2294 2521 -205 156 -196	C
ATOM 5208 CD LYS B 154	-5.406 -1.432 -46.137 1.00 16.56	C
ANISOU 5208 CD LYS B 154	1474 2330 2489 -320 249 -143	C
ATOM 5209 CE LYS B 154	-6.649 -2.072 -46.754 1.00 16.41	C
ANISOU 5209 CE LYS B 154	1565 2295 2374 -300 247 -77	C
ATOM 5210 NZ LYS B 154	-6.916 -1.536 -48.119 1.00 16.12	N
ANISOU 5210 NZ LYS B 154	1594 2270 2261 -415 314 -10	N
ATOM 5211 H LYS B 154	-6.306 -3.612 -42.688 1.00 14.88	H
ATOM 5212 HA LYS B 154	-4.008 -4.706 -43.352 1.00 16.77	H
ATOM 5213 HB2 LYS B 154	-4.024 -3.411 -45.202 1.00 19.09	H
ATOM 5214 HB3 LYS B 154	-5.528 -3.836 -44.946 1.00 19.09	H
ATOM 5215 HG2 LYS B 154	-6.040 -1.758 -44.197 1.00 19.61	H
ATOM 5216 HG3 LYS B 154	-4.511 -1.318 -44.277 1.00 19.61	H
ATOM 5217 HD2 LYS B 154	-5.514 -0.468 -46.169 1.00 19.87	H

ATOM 5218	HD3 LYS B 154	-4.635 -1.700 -46.661 1.00 19.87	H
ATOM 5219	HE2 LYS B 154	-6.515 -3.030 -46.824 1.00 19.69	H
ATOM 5220	HE3 LYS B 154	-7.419 -1.880 -46.196 1.00 19.69	H
ATOM 5221	HZ1 LYS B 154	-7.046 -0.657 -48.080 1.00 19.35	H
ATOM 5222	HZ2 LYS B 154	-6.223 -1.703 -48.652 1.00 19.35	H
ATOM 5223	HZ3 LYS B 154	-7.642 -1.922 -48.460 1.00 19.35	H
ATOM 5224	N SER B 155	-3.750 -1.954 -41.769 1.00 13.56	N
ANISOU 5224	N SER B 155	870 1977 2307 -58 -32 -331	N
ATOM 5225	CA SER B 155	-2.746 -1.159 -41.069 1.00 16.66	C
ANISOU 5225	CA SER B 155	1157 2398 2775 -90 -70 -400	C
ATOM 5226	C SER B 155	-1.990 -1.986 -40.037 1.00 16.80	C
ANISOU 5226	C SER B 155	1089 2464 2829 16 -168 -461	C
ATOM 5227	O SER B 155	-0.907 -1.578 -39.611 1.00 16.93	O
ANISOU 5227	O SER B 155	983 2531 2921 -3 -200 -538	O
ATOM 5228	CB SER B 155	-3.385 0.076 -40.413 1.00 17.03	C
ANISOU 5228	CB SER B 155	1268 2391 2814 -141 -109 -375	C
ATOM 5229	OG SER B 155	-4.022 -0.222 -39.185 1.00 17.55	O
ANISOU 5229	OG SER B 155	1387 2447 2836 -60 -204 -369	O
ATOM 5230	H SER B 155	-4.567 -1.731 -41.619 1.00 16.28	H
ATOM 5231	HA SER B 155	-2.099 -0.842 -41.718 1.00 19.99	H
ATOM 5232	HB2 SER B 155	-2.691 0.733 -40.249 1.00 20.44	H
ATOM 5233	HB3 SER B 155	-4.044 0.443 -41.022 1.00 20.44	H
ATOM 5234	HG SER B 155	-4.632 -0.787 -39.308 1.00 21.06	H
ATOM 5235	N HIS B 156	-2.531 -3.141 -39.642 1.00 18.11	N
ANISOU 5235	N HIS B 156	1318 2615 2947 122 -220 -425	N
ATOM 5236	CA HIS B 156	-1.847 -4.091 -38.774 1.00 21.34	C
ANISOU 5236	CA HIS B 156	1663 3056 3388 235 -322 -460	C
ATOM 5237	C HIS B 156	-1.286 -5.286 -39.548 1.00 20.70	C
ANISOU 5237	C HIS B 156	1522 2982 3360 303 -279 -490	C
ATOM 5238	O HIS B 156	-1.007 -6.332 -38.951 1.00 20.96	O
ANISOU 5238	O HIS B 156	1554 3004 3406 414 -360 -485	O
ATOM 5239	CB HIS B 156	-2.795 -4.572 -37.670 1.00 23.00	C
ANISOU 5239	CB HIS B 156	1997 3234 3509 303 -417 -394	C
ATOM 5240	CG HIS B 156	-3.195 -3.497 -36.706 1.00 24.41	C
ANISOU 5240	CG HIS B 156	2215 3418 3643 252 -468 -395	C
ATOM 5241	ND1 HIS B 156	-2.412 -3.128 -35.632 1.00 25.89	N
ANISOU 5241	ND1 HIS B 156	2330 3658 3848 263 -570 -451	N
ATOM 5242	CD2 HIS B 156	-4.298 -2.713 -36.652 1.00 23.99	C
ANISOU 5242	CD2 HIS B 156	2259 3323 3532 192 -431 -359	C
ATOM 5243	CE1 HIS B 156	-3.014 -2.160 -34.962 1.00 25.68	C
ANISOU 5243	CE1 HIS B 156	2363 3623 3771 204 -584 -457	C
ATOM 5244	NE2 HIS B 156	-4.160 -1.890 -35.560 1.00 24.59	N
ANISOU 5244	NE2 HIS B 156	2324 3423 3596 166 -499 -403	N
ATOM 5245	H HIS B 156	-3.319 -3.399 -39.872 1.00 21.73	H
ATOM 5246	HA HIS B 156	-1.101 -3.641 -38.348 1.00 25.60	H
ATOM 5247	HB2 HIS B 156	-3.603 -4.918 -38.081 1.00 27.60	H
ATOM 5248	HB3 HIS B 156	-2.356 -5.274 -37.166 1.00 27.60	H
ATOM 5249	HD2 HIS B 156	-5.014 -2.726 -37.245 1.00 28.78	H
ATOM 5250	HE1 HIS B 156	-2.687 -1.742 -34.198 1.00 30.81	H
ATOM 5251	HE2 HIS B 156	-4.728 -1.297 -35.306 1.00 29.51	H
ATOM 5252	N GLY B 157	-1.118 -5.153 -40.861 1.00 20.02	N
ANISOU 5252	N GLY B 157	1406 2906 3293 232 -149 -515	N
ATOM 5253	CA GLY B 157	-0.480 -6.189 -41.650 1.00 19.92	C

ANISOU 5253	CA	GLY B 157	1318	2909	3341	285	-89	-575	C
ATOM 5254	C	GLY B 157	-1.376	-7.331	-42.071	1.00	19.70		C
ANISOU 5254	C	GLY B 157	1408	2819	3256	343	-66	-528	C
ATOM 5255	O	GLY B 157	-0.865	-8.340	-42.565	1.00	21.88		O
ANISOU 5255	O	GLY B 157	1629	3092	3594	410	-30	-588	O
ATOM 5256	H	GLY B 157	-1.367	-4.468	-41.317	1.00	24.02		H
ATOM 5257	HA2	GLY B 157	-0.113	-5.788	-42.453	1.00	23.90		H
ATOM 5258	HA3	GLY B 157	0.255	-6.561	-41.139	1.00	23.90		H
ATOM 5259	N	MET B 158	-2.692	-7.208	-41.900	1.00	17.12		N
ANISOU 5259	N	MET B 158	1236	2444	2827	319	-81	-434	N
ATOM 5260	CA	MET B 158	-3.647	-8.242	-42.296	1.00	15.32		C
ANISOU 5260	CA	MET B 158	1123	2158	2541	354	-57	-390	C
ATOM 5261	C	MET B 158	-4.298	-7.814	-43.606	1.00	15.06		C
ANISOU 5261	C	MET B 158	1149	2135	2439	243	60	-372	C
ATOM 5262	O	MET B 158	-5.276	-7.058	-43.606	1.00	14.29		O
ANISOU 5262	O	MET B 158	1138	2023	2267	178	56	-299	O
ATOM 5263	CB	MET B 158	-4.683	-8.458	-41.203	1.00	15.03		C
ANISOU 5263	CB	MET B 158	1206	2070	2434	396	-153	-304	C
ATOM 5264	CG	MET B 158	-4.108	-9.021	-39.910	1.00	17.94		C
ANISOU 5264	CG	MET B 158	1545	2428	2843	504	-280	-304	C
ATOM 5265	SD	MET B 158	-5.121	-8.569	-38.488	1.00	18.61		S
ANISOU 5265	SD	MET B 158	1747	2501	2823	495	-376	-219	S
ATOM 5266	CE	MET B 158	-6.696	-9.285	-38.937	1.00	17.01		C
ANISOU 5266	CE	MET B 158	1700	2232	2532	471	-318	-146	C
ATOM 5267	H	MET B 158	-3.065	-6.518	-41.547	1.00	20.55		H
ATOM 5268	HA	MET B 158	-3.173	-9.078	-42.434	1.00	18.39		H
ATOM 5269	HB2	MET B 158	-5.101	-7.607	-40.996	1.00	18.04		H
ATOM 5270	HB3	MET B 158	-5.353	-9.082	-41.525	1.00	18.04		H
ATOM 5271	HG2	MET B 158	-4.077	-9.988	-39.967	1.00	21.52		H
ATOM 5272	HG3	MET B 158	-3.216	-8.663	-39.774	1.00	21.52		H
ATOM 5273	HE1	MET B 158	-7.337	-9.103	-38.232	1.00	20.41		H
ATOM 5274	HE2	MET B 158	-6.998	-8.888	-39.769	1.00	20.41		H
ATOM 5275	HE3	MET B 158	-6.588	-10.243	-39.047	1.00	20.41		H
ATOM 5276	N	ASN B 159	-3.745	-8.295	-44.722	1.00	14.62		N
ANISOU 5276	N	ASN B 159	1041	2108	2408	221	160	-442	N
ATOM 5277	CA	ASN B 159	-4.284	-8.019	-46.048	1.00	14.55		C
ANISOU 5277	CA	ASN B 159	1092	2122	2315	111	269	-428	C
ATOM 5278	C	ASN B 159	-5.220	-9.145	-46.465	1.00	13.98		C
ANISOU 5278	C	ASN B 159	1124	2004	2185	142	282	-412	C
ATOM 5279	O	ASN B 159	-4.874	-10.325	-46.346	1.00	14.66		O
ANISOU 5279	O	ASN B 159	1187	2055	2329	233	277	-472	O
ATOM 5280	CB	ASN B 159	-3.162	-7.880	-47.080	1.00	17.31		C
ANISOU 5280	CB	ASN B 159	1331	2544	2701	45	390	-525	C
ATOM 5281	CG	ASN B 159	-2.272	-6.684	-46.824	1.00	18.31		C
ANISOU 5281	CG	ASN B 159	1356	2720	2881	-19	395	-542	C
ATOM 5282	OD1	ASN B 159	-2.747	-5.582	-46.580	1.00	18.35		O
ANISOU 5282	OD1	ASN B 159	1415	2711	2846	-88	364	-463	O
ATOM 5283	ND2	ASN B 159	-0.971	-6.900	-46.886	1.00	19.34		N
ANISOU 5283	ND2	ASN B 159	1329	2903	3114	3	437	-654	N
ATOM 5284	H	ASN B 159	-3.045	-8.794	-44.733	1.00	17.55		H
ATOM 5285	HA	ASN B 159	-4.788	-7.190	-46.027	1.00	17.46		H
ATOM 5286	HB2	ASN B 159	-2.609	-8.676	-47.054	1.00	20.77		H
ATOM 5287	HB3	ASN B 159	-3.555	-7.777	-47.961	1.00	20.77		H

ATOM 5288 HD21 ASN B 159	-0.421 -6.254 -46.748 1.00 23.20	H
ATOM 5289 HD22 ASN B 159	-0.674 -7.687 -47.063 1.00 23.20	H
ATOM 5290 N LEU B 160	-6.399 -8.777 -46.946 1.00 13.44	N
ANISOU 5290 N LEU B 160	1166 1929 2012 68 293 -335	N
ATOM 5291 CA LEU B 160	-7.340 -9.742 -47.484 1.00 14.18	C
ANISOU 5291 CA LEU B 160	1355 1992 2042 69 312 -328	C
ATOM 5292 C LEU B 160	-6.983 -10.103 -48.924 1.00 16.60	C
ANISOU 5292 C LEU B 160	1649 2352 2308 -2 432 -404	C
ATOM 5293 O LEU B 160	-6.229 -9.402 -49.601 1.00 17.32	O
ANISOU 5293 O LEU B 160	1679 2511 2391 -78 507 -436	O
ATOM 5294 CB LEU B 160	-8.759 -9.187 -47.418 1.00 14.15	C
ANISOU 5294 CB LEU B 160	1456 1973 1949 19 267 -224	C
ATOM 5295 CG LEU B 160	-9.321 -9.080 -45.997 1.00 14.17	C
ANISOU 5295 CG LEU B 160	1486 1923 1975 87 165 -165	C
ATOM 5296 CD1 LEU B 160	-10.506 -8.136 -45.963 1.00 13.18	C
ANISOU 5296 CD1 LEU B 160	1423 1799 1788 31 133 -81	C
ATOM 5297 CD2 LEU B 160	-9.715 -10.453 -45.470 1.00 14.64	C
ANISOU 5297 CD2 LEU B 160	1595 1922 2046 163 134 -175	C
ATOM 5298 H LEU B 160	-6.680 -7.964 -46.971 1.00 16.13	H
ATOM 5299 HA LEU B 160	-7.305 -10.552 -46.951 1.00 17.02	H
ATOM 5300 HB2 LEU B 160	-8.765 -8.298 -47.806 1.00 16.98	H
ATOM 5301 HB3 LEU B 160	-9.346 -9.770 -47.925 1.00 16.98	H
ATOM 5302 HG LEU B 160	-8.635 -8.720 -45.412 1.00 17.00	H
ATOM 5303 HD11 LEU B 160	-10.843 -8.086 -45.054 1.00 15.82	H
ATOM 5304 HD12 LEU B 160	-10.219 -7.259 -46.259 1.00 15.82	H
ATOM 5305 HD13 LEU B 160	-11.197 -8.476 -46.553 1.00 15.82	H
ATOM 5306 HD21 LEU B 160	-10.066 -10.357 -44.571 1.00 17.57	H
ATOM 5307 HD22 LEU B 160	-10.392 -10.832 -46.052 1.00 17.57	H
ATOM 5308 HD23 LEU B 160	-8.930 -11.023 -45.460 1.00 17.57	H
ATOM 5309 N GLY B 161	-7.549 -11.213 -49.389 1.00 16.32	N
ANISOU 5309 N GLY B 161	1677 2286 2239 12 456 -438	N
ATOM 5310 CA GLY B 161	-7.350 -11.638 -50.758 1.00 18.44	C
ANISOU 5310 CA GLY B 161	1949 2609 2449 -63 572 -522	C
ATOM 5311 C GLY B 161	-8.018 -10.696 -51.739 1.00 17.63	C
ANISOU 5311 C GLY B 161	1915 2578 2204 -202 602 -452	C
ATOM 5312 O GLY B 161	-8.828 -9.837 -51.384 1.00 16.64	O
ANISOU 5312 O GLY B 161	1843 2442 2037 -228 527 -336	O
ATOM 5313 H GLY B 161	-8.053 -11.734 -48.926 1.00 19.59	H
ATOM 5314 HA2 GLY B 161	-6.401 -11.668 -50.955 1.00 22.13	H
ATOM 5315 HA3 GLY B 161	-7.721 -12.526 -50.880 1.00 22.13	H
ATOM 5316 N SER B 162	-7.659 -10.871 -53.009 1.00 18.39	N
ANISOU 5316 N SER B 162	2012 2750 2226 -293 715 -527	N
ATOM 5317 CA SER B 162	-8.131 -9.996 -54.074 1.00 19.70	C
ANISOU 5317 CA SER B 162	2248 2997 2242 -437 748 -457	C
ATOM 5318 C SER B 162	-9.425 -10.470 -54.724 1.00 19.92	C
ANISOU 5318 C SER B 162	2391 3031 2146 -485 718 -423	C
ATOM 5319 O SER B 162	-10.089 -9.667 -55.387 1.00 19.68	O
ANISOU 5319 O SER B 162	2432 3051 1994 -584 692 -326	O
ATOM 5320 CB SER B 162	-7.051 -9.858 -55.149 1.00 22.00	C
ANISOU 5320 CB SER B 162	2485 3386 2488 -536 893 -552	C
ATOM 5321 OG SER B 162	-6.648 -11.132 -55.615 1.00 23.82	O
ANISOU 5321 OG SER B 162	2685 3626 2741 -505 982 -709	O
ATOM 5322 H SER B 162	-7.136 -11.498 -53.280 1.00 22.07	H

ATOM 5323	HA SER B 162	-8.293 -9.115 -53.703	1.00 23.65	H
ATOM 5324	HB2 SER B 162	-7.408 -9.347 -55.892	1.00 26.40	H
ATOM 5325	HB3 SER B 162	-6.284 -9.401 -54.769	1.00 26.40	H
ATOM 5326	HG SER B 162	-7.305 -11.538 -55.944	1.00 28.59	H
ATOM 5327	N ASN B 163	-9.808 -11.735 -54.545	1.00 19.40	N
ANISOU 5327	N ASN B 163	2346 2912 2114	-420 711 -497	N
ATOM 5328	CA ASN B 163	-11.033 -12.285 -55.121	1.00 20.10	C
ANISOU 5328	CA ASN B 163	2532 3007 2097	-471 682 -484	C
ATOM 5329	C ASN B 163	-12.042 -12.513 -54.001	1.00 18.70	C
ANISOU 5329	C ASN B 163	2385 2738 1981	-389 565 -407	C
ATOM 5330	O ASN B 163	-11.859 -13.408 -53.170	1.00 18.91	O
ANISOU 5330	O ASN B 163	2392 2677 2117	-291 553 -456	O
ATOM 5331	CB ASN B 163	-10.754 -13.595 -55.849	1.00 21.45	C
ANISOU 5331	CB ASN B 163	2711 3184 2256	-483 778 -643	C
ATOM 5332	CG ASN B 163	-9.846 -13.430 -57.033	1.00 24.89	C
ANISOU 5332	CG ASN B 163	3119 3728 2609	-581 912 -738	C
ATOM 5333	OD1 ASN B 163	-9.090 -12.467 -57.151	1.00 27.50	O
ANISOU 5333	OD1 ASN B 163	3400 4116 2933	-621 950 -704	O
ATOM 5334	ND2 ASN B 163	-9.910 -14.383 -57.921	1.00 25.77	N
ANISOU 5334	ND2 ASN B 163	3264 3866 2662	-628 987 -864	N
ATOM 5335	H ASN B 163	-9.362 -12.307 -54.083	1.00 23.28	H
ATOM 5336	HA ASN B 163	-11.409 -11.653 -55.753	1.00 24.12	H
ATOM 5337	HB2 ASN B 163	-10.332 -14.214 -55.233	1.00 25.74	H
ATOM 5338	HB3 ASN B 163	-11.594 -13.964 -56.166	1.00 25.74	H
ATOM 5339	HD21 ASN B 163	-9.415 -14.349 -58.624	1.00 30.92	H
ATOM 5340	HD22 ASN B 163	-10.446 -15.045 -57.804	1.00 30.92	H
ATOM 5341	N TRP B 164	-13.123 -11.743 -54.009	1.00 16.85	N
ANISOU 5341	N TRP B 164	2200 2524 1677	-433 482 -289	N
ATOM 5342	CA TRP B 164	-14.081 -11.746 -52.909	1.00 15.79	C
ANISOU 5342	CA TRP B 164	2080 2319 1599	-367 382 -216	C
ATOM 5343	C TRP B 164	-15.211 -12.737 -53.171	1.00 14.79	C
ANISOU 5343	C TRP B 164	2013 2179 1428	-393 361 -244	C
ATOM 5344	O TRP B 164	-15.775 -12.773 -54.268	1.00 15.94	O
ANISOU 5344	O TRP B 164	2203 2396 1459	-487 367 -253	O
ATOM 5345	CB TRP B 164	-14.640 -10.339 -52.702	1.00 15.42	C
ANISOU 5345	CB TRP B 164	2035 2293 1531	-387 305 -88	C
ATOM 5346	CG TRP B 164	-13.608 -9.416 -52.135	1.00 16.21	C
ANISOU 5346	CG TRP B 164	2076 2379 1703	-353 315 -64	C
ATOM 5347	CD1 TRP B 164	-12.491 -8.944 -52.765	1.00 18.21	C
ANISOU 5347	CD1 TRP B 164	2297 2681 1942	-403 389 -92	C
ATOM 5348	CD2 TRP B 164	-13.592 -8.863 -50.815	1.00 15.83	C
ANISOU 5348	CD2 TRP B 164	1991 2272 1752	-274 254 -18	C
ATOM 5349	NE1 TRP B 164	-11.772 -8.133 -51.906	1.00 18.14	N
ANISOU 5349	NE1 TRP B 164	2227 2641 2025	-359 372 -66	N
ATOM 5350	CE2 TRP B 164	-12.432 -8.071 -50.706	1.00 16.61	C
ANISOU 5350	CE2 TRP B 164	2034 2382 1897	-278 286 -23	C
ATOM 5351	CE3 TRP B 164	-14.447 -8.964 -49.713	1.00 15.64	C
ANISOU 5351	CE3 TRP B 164	1975 2194 1773	-212 182 17	C
ATOM 5352	CZ2 TRP B 164	-12.111 -7.381 -49.540	1.00 15.76	C
ANISOU 5352	CZ2 TRP B 164	1881 2232 1878	-219 239 3	C
ATOM 5353	CZ3 TRP B 164	-14.122 -8.280 -48.557	1.00 15.08	C
ANISOU 5353	CZ3 TRP B 164	1865 2086 1780	-153 142 44	C
ATOM 5354	CH2 TRP B 164	-12.967 -7.499 -48.480	1.00 15.03	C

ANISOU 5354	CH2 TRP B 164	1805	2089	1817	-156	166	35	C
ATOM 5355	H TRP B 164	-13.328	-11.203	-54.647	1.00	20.22		H
ATOM 5356	HA TRP B 164	-13.628	-12.014	-52.094	1.00	18.94		H
ATOM 5357	HB2 TRP B 164	-14.931	-9.981	-53.556	1.00	18.50		H
ATOM 5358	HB3 TRP B 164	-15.386	-10.378	-52.083	1.00	18.50		H
ATOM 5359	HD1 TRP B 164	-12.242	-9.151	-53.637	1.00	21.85		H
ATOM 5360	HE1 TRP B 164	-11.036	-7.731	-52.095	1.00	21.77		H
ATOM 5361	HE3 TRP B 164	-15.216	-9.486	-49.755	1.00	18.77		H
ATOM 5362	HZ2 TRP B 164	-11.345	-6.856	-49.485	1.00	18.92		H
ATOM 5363	HZ3 TRP B 164	-14.683	-8.341	-47.817	1.00	18.10		H
ATOM 5364	HH2 TRP B 164	-12.776	-7.047	-47.690	1.00	18.04		H
ATOM 5365	N ALA B 165	-15.541	-13.533	-52.154	1.00	14.48		N
ANISOU 5365	N ALA B 165	1979	2051	1474	-321	333	-257	N
ATOM 5366	CA ALA B 165	-16.666	-14.459	-52.225	1.00	13.30		C
ANISOU 5366	CA ALA B 165	1882	1874	1298	-353	312	-279	C
ATOM 5367	C ALA B 165	-17.814	-13.924	-51.367	1.00	13.08		C
ANISOU 5367	C ALA B 165	1852	1834	1283	-341	224	-180	C
ATOM 5368	O ALA B 165	-17.949	-12.703	-51.229	1.00	11.51		O
ANISOU 5368	O ALA B 165	1625	1676	1074	-338	178	-99	O
ATOM 5369	CB ALA B 165	-16.229	-15.868	-51.797	1.00	13.77		C
ANISOU 5369	CB ALA B 165	1960	1830	1442	-296	357	-369	C
ATOM 5370	H ALA B 165	-15.121	-13.554	-51.404	1.00	17.38		H
ATOM 5371	HA ALA B 165	-16.976	-14.508	-53.143	1.00	15.96		H
ATOM 5372	HB1 ALA B 165	-16.992	-16.465	-51.852	1.00	16.52		H
ATOM 5373	HB2 ALA B 165	-15.525	-16.174	-52.391	1.00	16.52		H
ATOM 5374	HB3 ALA B 165	-15.901	-15.833	-50.885	1.00	16.52		H
ATOM 5375	N TYR B 166	-18.652	-14.796	-50.796	1.00	13.91		N
ANISOU 5375	N TYR B 166	1988	1883	1416	-339	208	-192	N
ATOM 5376	CA TYR B 166	-19.841	-14.280	-50.127	1.00	14.29		C
ANISOU 5376	CA TYR B 166	2021	1941	1466	-346	140	-117	C
ATOM 5377	C TYR B 166	-19.476	-13.485	-48.871	1.00	13.22		C
ANISOU 5377	C TYR B 166	1851	1774	1399	-265	112	-53	C
ATOM 5378	O TYR B 166	-18.371	-13.575	-48.332	1.00	11.57		O
ANISOU 5378	O TYR B 166	1635	1520	1242	-199	134	-65	O
ATOM 5379	CB TYR B 166	-20.824	-15.405	-49.790	1.00	16.89		C
ANISOU 5379	CB TYR B 166	2388	2224	1807	-382	143	-150	C
ATOM 5380	CG TYR B 166	-20.365	-16.414	-48.760	1.00	17.11		C
ANISOU 5380	CG TYR B 166	2455	2136	1911	-327	174	-169	C
ATOM 5381	CD1 TYR B 166	-20.198	-16.060	-47.427	1.00	16.96		C
ANISOU 5381	CD1 TYR B 166	2426	2076	1943	-259	149	-106	C
ATOM 5382	CD2 TYR B 166	-20.135	-17.738	-49.118	1.00	18.90		C
ANISOU 5382	CD2 TYR B 166	2737	2287	2156	-345	223	-249	C
ATOM 5383	CE1 TYR B 166	-19.783	-16.988	-46.488	1.00	18.31		C
ANISOU 5383	CE1 TYR B 166	2647	2142	2169	-211	162	-105	C
ATOM 5384	CE2 TYR B 166	-19.724	-18.672	-48.182	1.00	19.23		C
ANISOU 5384	CE2 TYR B 166	2826	2205	2275	-289	237	-250	C
ATOM 5385	CZ TYR B 166	-19.552	-18.292	-46.877	1.00	19.09		C
ANISOU 5385	CZ TYR B 166	2803	2155	2294	-222	202	-169	C
ATOM 5386	OH TYR B 166	-19.150	-19.218	-45.940	1.00	20.63		O
ANISOU 5386	OH TYR B 166	3059	2228	2552	-169	201	-152	O
ATOM 5387	H TYR B 166	-18.558	-15.650	-50.782	1.00	16.70		H
ATOM 5388	HA TYR B 166	-20.293	-13.673	-50.733	1.00	17.14		H
ATOM 5389	HB2 TYR B 166	-21.641	-15.003	-49.455	1.00	20.27		H

ATOM 5390	HB3 TYR B 166	-21.017 -15.893 -50.606	1.00 20.27	H
ATOM 5391	HD1 TYR B 166	-20.350 -15.181 -47.165	1.00 20.36	H
ATOM 5392	HD2 TYR B 166	-20.246 -17.998 -50.004	1.00 22.68	H
ATOM 5393	HE1 TYR B 166	-19.669 -16.737 -45.600	1.00 21.98	H
ATOM 5394	HE2 TYR B 166	-19.567 -19.552 -48.438	1.00 23.08	H
ATOM 5395	HH TYR B 166	-19.044 -19.968 -46.305	1.00 24.76	H
ATOM 5396	N GLN B 167	-20.447 -12.690 -48.422	1.00 12.71	N
ANISOU 5396	N GLN B 167	1460 1814 1556	-152 -26 -395	N
ATOM 5397	CA GLN B 167	-20.302 -11.765 -47.303	1.00 11.49	C
ANISOU 5397	CA GLN B 167	1263 1681 1422	-116 -60 -367	C
ATOM 5398	C GLN B 167	-21.677 -11.720 -46.645	1.00 11.56	C
ANISOU 5398	C GLN B 167	1305 1649 1437	-137 -74 -318	C
ATOM 5399	O GLN B 167	-22.593 -11.099 -47.191	1.00 11.48	O
ANISOU 5399	O GLN B 167	1283 1640 1437	-202 -84 -289	O
ATOM 5400	CB GLN B 167	-19.864 -10.398 -47.814	1.00 11.61	C
ANISOU 5400	CB GLN B 167	1218 1753 1440	-170 -69 -369	C
ATOM 5401	CG GLN B 167	-19.657 -9.336 -46.768	1.00 11.14	C
ANISOU 5401	CG GLN B 167	1119 1709 1404	-153 -95 -362	C
ATOM 5402	CD GLN B 167	-19.132 -8.056 -47.375	1.00 12.40	C
ANISOU 5402	CD GLN B 167	1233 1904 1575	-216 -97 -366	C
ATOM 5403	OE1 GLN B 167	-19.749 -7.498 -48.281	1.00 12.34	O
ANISOU 5403	OE1 GLN B 167	1236 1881 1571	-285 -101 -325	O
ATOM 5404	NE2 GLN B 167	-17.987 -7.589 -46.893	1.00 12.64	N
ANISOU 5404	NE2 GLN B 167	1210 1983 1609	-203 -99 -406	N
ATOM 5405	H GLN B 167	-21.234 -12.670 -48.768	1.00 15.26	H
ATOM 5406	HA GLN B 167	-19.649 -12.099 -46.668	1.00 13.79	H
ATOM 5407	HB2 GLN B 167	-19.024 -10.504 -48.287	1.00 13.93	H
ATOM 5408	HB3 GLN B 167	-20.540 -10.071 -48.428	1.00 13.93	H
ATOM 5409	HG2 GLN B 167	-20.504 -9.143 -46.336	1.00 13.37	H
ATOM 5410	HG3 GLN B 167	-19.011 -9.650 -46.116	1.00 13.37	H
ATOM 5411	HE21 GLN B 167	-17.581 -8.013 -46.264	1.00 15.17	H
ATOM 5412	HE22 GLN B 167	-17.651 -6.863 -47.209	1.00 15.17	H
ATOM 5413	N AVAL B 168	-21.849 -12.421 -45.524	0.43 11.86	N
ANISOU 5413	N AVAL B 168	1383 1653 1471	-86 -75 -303	N
ATOM 5414	N BVAL B 168	-21.807 -12.345 -45.472	0.57 11.89	N
ANISOU 5414	N BVAL B 168	1382 1660 1474	-84 -76 -304	N
ATOM 5415	CA AVAL B 168	-23.181 -12.532 -44.940	0.43 11.73	C
ANISOU 5415	CA AVAL B 168	1396 1604 1454	-119 -68 -267	C
ATOM 5416	CA BVAL B 168	-23.108 -12.648 -44.883	0.57 11.78	C
ANISOU 5416	CA BVAL B 168	1409 1609 1459	-113 -67 -267	C
ATOM 5417	C AVAL B 168	-23.144 -12.232 -43.449	0.43 11.13	C
ANISOU 5417	C AVAL B 168	1323 1543 1362	-83 -73 -256	C
ATOM 5418	C BVAL B 168	-23.125 -12.240 -43.414	0.57 11.11	C
ANISOU 5418	C BVAL B 168	1322 1541 1359	-81 -73 -256	C
ATOM 5419	O AVAL B 168	-22.138 -12.445 -42.763	0.43 10.88	O
ANISOU 5419	O AVAL B 168	1298 1532 1306	-24 -94 -261	O
ATOM 5420	O BVAL B 168	-22.124 -12.389 -42.702	0.57 10.64	O
ANISOU 5420	O BVAL B 168	1264 1503 1273	-24 -95 -261	O
ATOM 5421	CB AVAL B 168	-23.824 -13.921 -45.191	0.43 11.92	C
ANISOU 5421	CB AVAL B 168	1496 1566 1468	-141 -45 -255	C
ATOM 5422	CB BVAL B 168	-23.429 -14.150 -45.046	0.57 12.00	C
ANISOU 5422	CB BVAL B 168	1517 1570 1475	-114 -45 -260	C
ATOM 5423	CG1AVAL B 168	-23.660 -14.379 -46.651	0.43 12.21	C

ANISOU 5423	CG1AVAL B 168	1544	1594	1500	-183	-32	-289	C
ATOM 5424	CG1BVAL B 168	-24.692	-14.546	-44.305	0.57	12.10		C
ANISOU 5424	CG1BVAL B 168	1569	1549	1478	-155	-28	-222	C
ATOM 5425	CG2AVAL B 168	-23.284	-14.968	-44.231	0.43	12.21		C
ANISOU 5425	CG2AVAL B 168	1598	1554	1488	-71	-42	-239	C
ATOM 5426	CG2BVAL B 168	-23.579	-14.501	-46.533	0.57	12.27		C
ANISOU 5426	CG2BVAL B 168	1560	1596	1508	-173	-31	-290	C
ATOM 5427	H AVAL B 168	-21.228	-12.830	-45.093	0.43	14.23		H
ATOM 5428	H BVAL B 168	-21.143	-12.606	-44.992	0.57	14.26		H
ATOM 5429	HA AVAL B 168	-23.754	-11.868	-45.355	0.43	14.07		H
ATOM 5430	HA BVAL B 168	-23.793	-12.141	-45.345	0.57	14.14		H
ATOM 5431	HB AVAL B 168	-24.777	-13.845	-45.022	0.43	14.31		H
ATOM 5432	HB BVAL B 168	-22.694	-14.671	-44.686	0.57	14.41		H
ATOM 5433	HG11AVAL B 168	-23.177	-13.698	-47.143	0.43	14.65		H
ATOM 5434	HG11BVAL B 168	-25.058	-13.763	-43.865	0.57	14.52		H
ATOM 5435	HG12AVAL B 168	-23.165	-15.213	-46.666	0.43	14.65		H
ATOM 5436	HG12BVAL B 168	-25.334	-14.898	-44.941	0.57	14.52		H
ATOM 5437	HG13AVAL B 168	-24.539	-14.509	-47.041	0.43	14.65		H
ATOM 5438	HG13BVAL B 168	-24.472	-15.223	-43.646	0.57	14.52		H
ATOM 5439	HG21AVAL B 168	-23.710	-15.818	-44.420	0.43	14.65		H
ATOM 5440	HG21BVAL B 168	-23.780	-15.447	-46.615	0.57	14.73		H
ATOM 5441	HG22AVAL B 168	-22.325	-15.043	-44.353	0.43	14.65		H
ATOM 5442	HG22BVAL B 168	-24.301	-13.975	-46.911	0.57	14.73		H
ATOM 5443	HG23AVAL B 168	-23.481	-14.693	-43.321	0.43	14.65		H
ATOM 5444	HG23BVAL B 168	-22.748	-14.299	-46.991	0.57	14.73		H
ATOM 5445	N MET B 169	-24.270	-11.725	-42.957	1.00	11.54		N
ANISOU 5445	N MET B 169	1364	1594	1425	-123	-53	-245	N
ATOM 5446	CA MET B 169	-24.475	-11.469	-41.536	1.00	12.22		C
ANISOU 5446	CA MET B 169	1464	1700	1480	-115	-37	-248	C
ATOM 5447	C MET B 169	-25.053	-12.754	-40.965	1.00	12.91		C
ANISOU 5447	C MET B 169	1630	1751	1523	-127	-15	-207	C
ATOM 5448	O MET B 169	-26.230	-13.061	-41.169	1.00	14.34		O
ANISOU 5448	O MET B 169	1816	1909	1723	-182	20	-194	O
ATOM 5449	CB MET B 169	-25.403	-10.278	-41.312	1.00	13.68		C
ANISOU 5449	CB MET B 169	1590	1896	1713	-150	-6	-272	C
ATOM 5450	CG MET B 169	-25.492	-9.867	-39.868	1.00	13.49		C
ANISOU 5450	CG MET B 169	1578	1903	1645	-152	27	-304	C
ATOM 5451	SD MET B 169	-23.913	-9.278	-39.240	1.00	13.16		S
ANISOU 5451	SD MET B 169	1535	1915	1550	-119	-18	-343	S
ATOM 5452	CE MET B 169	-24.077	-9.635	-37.479	1.00	14.31		C
ANISOU 5452	CE MET B 169	1747	2113	1579	-141	6	-349	C
ATOM 5453	H MET B 169	-24.946	-11.516	-43.446	1.00	13.84		H
ATOM 5454	HA MET B 169	-23.623	-11.280	-41.113	1.00	14.67		H
ATOM 5455	HB2 MET B 169	-25.071	-9.521	-41.819	1.00	16.42		H
ATOM 5456	HB3 MET B 169	-26.295	-10.513	-41.612	1.00	16.42		H
ATOM 5457	HG2 MET B 169	-26.140	-9.151	-39.780	1.00	16.19		H
ATOM 5458	HG3 MET B 169	-25.764	-10.631	-39.335	1.00	16.19		H
ATOM 5459	HE1 MET B 169	-23.268	-9.354	-37.024	1.00	17.18		H
ATOM 5460	HE2 MET B 169	-24.840	-9.149	-37.128	1.00	17.18		H
ATOM 5461	HE3 MET B 169	-24.209	-10.588	-37.361	1.00	17.18		H
ATOM 5462	N ALA B 170	-24.216	-13.519	-40.277	1.00	13.27		N
ANISOU 5462	N ALA B 170	1735	1792	1515	-79	-42	-180	N
ATOM 5463	CA ALA B 170	-24.459	-14.938	-40.079	1.00	13.74		C

ANISOU 5463	CA	ALA B 170	1888	1783	1549	-78	-34	-126	C
ATOM 5464	C	ALA B 170	-24.725	-15.290	-38.628	1.00	14.34		C
ANISOU 5464	C	ALA B 170	2033	1873	1542	-95	-26	-77	C
ATOM 5465	O	ALA B 170	-24.363	-14.569	-37.691	1.00	13.13		O
ANISOU 5465	O	ALA B 170	1861	1794	1333	-90	-41	-90	O
ATOM 5466	CB	ALA B 170	-23.267	-15.775	-40.553	1.00	13.27		C
ANISOU 5466	CB	ALA B 170	1855	1678	1510	5	-75	-114	C
ATOM 5467	H	ALA B 170	-23.492	-13.235	-39.911	1.00	15.92		H
ATOM 5468	HA	ALA B 170	-25.235	-15.201	-40.599	1.00	16.49		H
ATOM 5469	HB1	ALA B 170	-23.462	-16.713	-40.406	1.00	15.93		H
ATOM 5470	HB2	ALA B 170	-23.121	-15.610	-41.497	1.00	15.93		H
ATOM 5471	HB3	ALA B 170	-22.480	-15.517	-40.046	1.00	15.93		H
ATOM 5472	N	THR B 171	-25.392	-16.428	-38.483	1.00	14.00		N
ANISOU 5472	N	THR B 171	2078	1758	1483	-134	3	-25	N
ATOM 5473	CA	THR B 171	-25.333	-17.257	-37.291	1.00	15.26		C
ANISOU 5473	CA	THR B 171	2344	1898	1558	-139	-6	57	C
ATOM 5474	C	THR B 171	-24.396	-18.414	-37.607	1.00	15.64		C
ANISOU 5474	C	THR B 171	2460	1847	1638	-51	-60	114	C
ATOM 5475	O	THR B 171	-24.668	-19.199	-38.524	1.00	14.39		O
ANISOU 5475	O	THR B 171	2335	1588	1545	-59	-34	105	O
ATOM 5476	CB	THR B 171	-26.720	-17.774	-36.924	1.00	16.57		C
ANISOU 5476	CB	THR B 171	2566	2035	1693	-251	70	83	C
ATOM 5477	OG1	THR B 171	-27.604	-16.672	-36.686	1.00	17.42		O
ANISOU 5477	OG1	THR B 171	2587	2232	1799	-317	130	17	O
ATOM 5478	CG2	THR B 171	-26.652	-18.641	-35.678	1.00	19.14		C
ANISOU 5478	CG2	THR B 171	3020	2339	1915	-274	63	184	C
ATOM 5479	H	THR B 171	-25.907	-16.753	-39.091	1.00	16.80		H
ATOM 5480	HA	THR B 171	-24.974	-16.749	-36.547	1.00	18.32		H
ATOM 5481	HB	THR B 171	-27.066	-18.313	-37.652	1.00	19.88		H
ATOM 5482	HG1	THR B 171	-27.664	-16.197	-37.376	1.00	20.90		H
ATOM 5483	HG21	THR B 171	-27.538	-18.965	-35.451	1.00	22.97		H
ATOM 5484	HG22	THR B 171	-26.068	-19.400	-35.834	1.00	22.97		H
ATOM 5485	HG23	THR B 171	-26.306	-18.124	-34.934	1.00	22.97		H
ATOM 5486	N	ALA B 172	-23.286	-18.504	-36.877	1.00	15.35		N
ANISOU 5486	N	ALA B 172	2435	1838	1560	34	-136	165	N
ATOM 5487	CA	ALA B 172	-22.291	-19.544	-37.098	1.00	17.43		C
ANISOU 5487	CA	ALA B 172	2741	2006	1876	146	-194	221	C
ATOM 5488	C	ALA B 172	-22.032	-20.258	-35.783	1.00	18.62		C
ANISOU 5488	C	ALA B 172	2995	2140	1940	168	-255	353	C
ATOM 5489	O	ALA B 172	-22.115	-19.655	-34.710	1.00	19.04		O
ANISOU 5489	O	ALA B 172	3051	2306	1877	119	-277	379	O
ATOM 5490	CB	ALA B 172	-20.971	-18.975	-37.648	1.00	18.07		C
ANISOU 5490	CB	ALA B 172	2703	2145	2016	252	-250	164	C
ATOM 5491	H	ALA B 172	-23.085	-17.965	-36.238	1.00	18.42		H
ATOM 5492	HA	ALA B 172	-22.635	-20.190	-37.735	1.00	20.91		H
ATOM 5493	HB1	ALA B 172	-20.343	-19.703	-37.778	1.00	21.68		H
ATOM 5494	HB2	ALA B 172	-21.146	-18.533	-38.494	1.00	21.68		H
ATOM 5495	HB3	ALA B 172	-20.612	-18.338	-37.010	1.00	21.68		H
ATOM 5496	N	GLY B 173	-21.717	-21.547	-35.864	1.00	19.30		N
ANISOU 5496	N	GLY B 173	3174	2079	2080	238	-281	437	N
ATOM 5497	CA	GLY B 173	-21.539	-22.319	-34.647	1.00	20.36		C
ANISOU 5497	CA	GLY B 173	3426	2177	2133	254	-347	592	C
ATOM 5498	C	GLY B 173	-20.617	-23.505	-34.807	1.00	23.14		C

ANISOU 5498	C	GLY B 173	3830	2375	2587	403	-416	682	C
ATOM 5499	O	GLY B 173	-20.308	-23.949	-35.920	1.00	21.45		O
ANISOU 5499	O	GLY B 173	3585	2050	2514	476	-382	611	O
ATOM 5500	H	GLY B 173	-21.604	-21.987	-36.594	1.00	23.16		H
ATOM 5501	HA2	GLY B 173	-21.175	-21.744	-33.956	1.00	24.43		H
ATOM 5502	HA3	GLY B 173	-22.402	-22.644	-34.347	1.00	24.43		H
ATOM 5503	N	TYR B 174	-20.181	-24.015	-33.654	1.00	26.44		N
ANISOU 5503	N	TYR B 174	4329	2789	2929	444	-515	841	N
ATOM 5504	CA	TYR B 174	-19.329	-25.198	-33.573	1.00	29.93		C
ANISOU 5504	CA	TYR B 174	4830	3070	3470	599	-600	965	C
ATOM 5505	C	TYR B 174	-19.748	-25.988	-32.341	1.00	30.95		C
ANISOU 5505	C	TYR B 174	5139	3138	3482	541	-650	1163	C
ATOM 5506	O	TYR B 174	-19.580	-25.511	-31.215	1.00	30.76		O
ANISOU 5506	O	TYR B 174	5122	3270	3296	498	-731	1247	O
ATOM 5507	CB	TYR B 174	-17.850	-24.814	-33.499	1.00	33.23		C
ANISOU 5507	CB	TYR B 174	5099	3587	3939	766	-724	968	C
ATOM 5508	CG	TYR B 174	-16.920	-25.998	-33.421	1.00	38.25		C
ANISOU 5508	CG	TYR B 174	5769	4059	4706	953	-818	1097	C
ATOM 5509	CD1	TYR B 174	-16.531	-26.675	-34.568	1.00	39.55		C
ANISOU 5509	CD1	TYR B 174	5901	4051	5075	1075	-760	1016	C
ATOM 5510	CD2	TYR B 174	-16.430	-26.442	-32.200	1.00	42.00		C
ANISOU 5510	CD2	TYR B 174	6308	4549	5103	1011	-967	1299	C
ATOM 5511	CE1	TYR B 174	-15.680	-27.761	-34.501	1.00	42.40		C
ANISOU 5511	CE1	TYR B 174	6277	4249	5585	1257	-831	1120	C
ATOM 5512	CE2	TYR B 174	-15.582	-27.527	-32.124	1.00	45.20		C
ANISOU 5512	CE2	TYR B 174	6679	4830	5664	1160	-1016	1404	C
ATOM 5513	CZ	TYR B 174	-15.209	-28.182	-33.278	1.00	45.56		C
ANISOU 5513	CZ	TYR B 174	6681	4695	5935	1285	-946	1312	C
ATOM 5514	OH	TYR B 174	-14.361	-29.266	-33.201	1.00	48.98		O
ANISOU 5514	OH	TYR B 174	7072	4998	6539	1437	-981	1412	O
ATOM 5515	H	TYR B 174	-20.372	-23.681	-32.885	1.00	31.73		H
ATOM 5516	HA	TYR B 174	-19.466	-25.752	-34.358	1.00	35.91		H
ATOM 5517	HB2	TYR B 174	-17.618	-24.306	-34.293	1.00	39.87		H
ATOM 5518	HB3	TYR B 174	-17.707	-24.271	-32.708	1.00	39.87		H
ATOM 5519	HD1	TYR B 174	-16.848	-26.392	-35.395	1.00	47.46		H
ATOM 5520	HD2	TYR B 174	-16.681	-26.002	-31.420	1.00	50.40		H
ATOM 5521	HE1	TYR B 174	-15.427	-28.206	-35.278	1.00	50.88		H
ATOM 5522	HE2	TYR B 174	-15.262	-27.813	-31.299	1.00	54.24		H
ATOM 5523	HH	TYR B 174	-14.152	-29.411	-32.401	1.00	58.77		H
ATOM 5524	N	GLN B 175	-20.306	-27.180	-32.554	1.00	30.93		N
ANISOU 5524	N	GLN B 175	5289	2912	3550	522	-597	1232	N
ATOM 5525	CA	GLN B 175	-20.674	-28.090	-31.471	1.00	33.30		C
ANISOU 5525	CA	GLN B 175	5763	3128	3761	462	-632	1430	C
ATOM 5526	C	GLN B 175	-21.542	-27.394	-30.425	1.00	32.98		C
ANISOU 5526	C	GLN B 175	5766	3275	3489	266	-601	1457	C
ATOM 5527	O	GLN B 175	-21.291	-27.477	-29.220	1.00	33.74		O
ANISOU 5527	O	GLN B 175	5879	3479	3460	244	-671	1582	O
ATOM 5528	CB	GLN B 175	-19.423	-28.691	-30.827	1.00	35.74		C
ANISOU 5528	CB	GLN B 175	6019	3430	4131	631	-769	1575	C
ATOM 5529	CG	GLN B 175	-18.651	-29.627	-31.746	1.00	38.33		C
ANISOU 5529	CG	GLN B 175	6305	3548	4710	814	-770	1556	C
ATOM 5530	CD	GLN B 175	-17.448	-30.264	-31.067	1.00	43.30		C
ANISOU 5530	CD	GLN B 175	6869	4170	5414	982	-896	1716	C

ATOM 5531	OE1 GLN B 175	-16.993 -29.806 -30.018	1.00 45.06	O
ANISOU 5531	OE1 GLN B 175	7046 4581 5493	982 -1003 1820	O
ATOM 5532	NE2 GLN B 175	-16.935 -31.336 -31.659	1.00 45.38	N
ANISOU 5532	NE2 GLN B 175	7124 4218 5900	1121 -875 1734	N
ATOM 5533	H GLN B 175	-20.486 -27.490 -33.336	1.00 37.11	H
ATOM 5534	HA GLN B 175	-21.192 -28.821 -31.843	1.00 39.96	H
ATOM 5535	HB2 GLN B 175	-18.826 -27.970 -30.570	1.00 42.89	H
ATOM 5536	HB3 GLN B 175	-19.686 -29.196 -30.042	1.00 42.89	H
ATOM 5537	HG2 GLN B 175	-19.242 -30.339 -32.038	1.00 45.99	H
ATOM 5538	HG3 GLN B 175	-18.332 -29.125 -32.512	1.00 45.99	H
ATOM 5539	HE21 GLN B 175	-17.285 -31.634 -32.387	1.00 54.46	H
ATOM 5540	HE22 GLN B 175	-16.254 -31.733 -31.315	1.00 54.46	H
ATOM 5541	N SER B 176	-22.593 -26.720 -30.892	1.00 30.21	N
ANISOU 5541	N SER B 176	5389 2989 3100	120 -471 1312	N
ATOM 5542	CA SER B 176	-23.443 -25.938 -30.003	1.00 30.64	C
ANISOU 5542	CA SER B 176	5455 3229 2957	-60 -414 1296	C
ATOM 5543	C SER B 176	-24.912 -26.134 -30.374	1.00 29.56	C
ANISOU 5543	C SER B 176	5370 3038 2823	-237 -252 1225	C
ATOM 5544	O SER B 176	-25.263 -26.937 -31.243	1.00 28.71	O
ANISOU 5544	O SER B 176	5310 2748 2851	-234 -196 1205	O
ATOM 5545	CB SER B 176	-23.050 -24.460 -30.061	1.00 28.96	C
ANISOU 5545	CB SER B 176	5060 3239 2704	-41 -427 1148	C
ATOM 5546	OG SER B 176	-23.220 -23.957 -31.364	1.00 26.75	O
ANISOU 5546	OG SER B 176	4652 2940 2573	-11 -353 974	O
ATOM 5547	H SER B 176	-22.832 -26.700 -31.718	1.00 36.25	H
ATOM 5548	HA SER B 176	-23.319 -26.247 -29.092	1.00 36.76	H
ATOM 5549	HB2 SER B 176	-23.614 -23.958 -29.451	1.00 34.75	H
ATOM 5550	HB3 SER B 176	-22.119 -24.369 -29.805	1.00 34.75	H
ATOM 5551	HG SER B 176	-23.003 -23.146 -31.389	1.00 32.10	H
ATOM 5552	N SER B 177	-25.768 -25.382 -29.680	1.00 29.02	N
ANISOU 5552	N SER B 177	5286 3138 2602	-396 -173 1180	N
ATOM 5553	CA SER B 177	-27.212 -25.385 -29.865	1.00 28.29	C
ANISOU 5553	CA SER B 177	5206 3046 2496	-576 -18 1106	C
ATOM 5554	C SER B 177	-27.705 -23.963 -29.667	1.00 27.05	C
ANISOU 5554	C SER B 177	4902 3107 2269	-646 54 953	C
ATOM 5555	O SER B 177	-27.006 -23.127 -29.088	1.00 28.06	O
ANISOU 5555	O SER B 177	4973 3377 2312	-596 -11 935	O
ATOM 5556	CB SER B 177	-27.923 -26.301 -28.865	1.00 30.24	C
ANISOU 5556	CB SER B 177	5555 3269 2665	-696 29 1209	C
ATOM 5557	OG SER B 177	-27.289 -27.556 -28.774	1.00 31.73	O
ANISOU 5557	OG SER B 177	5848 3282 2924	-602 -55 1355	O
ATOM 5558	H SER B 177	-25.516 -24.836 -29.065	1.00 34.82	H
ATOM 5559	HA SER B 177	-27.429 -25.672 -30.766	1.00 33.94	H
ATOM 5560	HB2 SER B 177	-27.912 -25.880 -27.991	1.00 36.28	H
ATOM 5561	HB3 SER B 177	-28.839 -26.433 -29.156	1.00 36.28	H
ATOM 5562	HG SER B 177	-27.291 -27.934 -29.524	1.00 38.07	H
ATOM 5563	N GLY B 178	-28.915 -23.688 -30.127	1.00 25.17	N
ANISOU 5563	N GLY B 178	4601 2892 2073	-765 186 842	N
ATOM 5564	CA GLY B 178	-29.525 -22.398 -29.874	1.00 24.06	C
ANISOU 5564	CA GLY B 178	4326 2935 1883	-833 270 703	C
ATOM 5565	C GLY B 178	-30.544 -22.041 -30.937	1.00 22.62	C
ANISOU 5565	C GLY B 178	4013 2743 1838	-880 368 568	C
ATOM 5566	O GLY B 178	-30.953 -22.873 -31.743	1.00 22.66	O

ANISOU 5566 O GLY B 178	4050 2618 1941 -905 387 583	O
ATOM 5567 H GLY B 178	-29.401 -24.229 -30.587 1.00 30.21	H
ATOM 5568 HA2 GLY B 178	-29.969 -22.412 -29.012 1.00 28.88	H
ATOM 5569 HA3 GLY B 178	-28.840 -21.712 -29.858 1.00 28.88	H
ATOM 5570 N SER B 179	-30.949 -20.771 -30.913 1.00 20.52	N
ANISOU 5570 N SER B 179	3600 2619 1579 -893 427 434	N
ATOM 5571 CA SER B 179	-31.856 -20.217 -31.908 1.00 19.40	C
ANISOU 5571 CA SER B 179	3306 2492 1574 -916 498 311	C
ATOM 5572 C SER B 179	-31.457 -18.784 -32.217 1.00 18.78	C
ANISOU 5572 C SER B 179	3076 2505 1553 -820 475 192	C
ATOM 5573 O SER B 179	-30.890 -18.089 -31.369 1.00 18.27	O
ANISOU 5573 O SER B 179	3015 2531 1395 -795 458 173	O
ATOM 5574 CB SER B 179	-33.305 -20.223 -31.434 1.00 20.73	C
ANISOU 5574 CB SER B 179	3441 2728 1707 -1082 643 273	C
ATOM 5575 OG SER B 179	-33.693 -21.508 -30.995 1.00 21.86	O
ANISOU 5575 OG SER B 179	3737 2791 1777 -1199 675 387	O
ATOM 5576 H SER B 179	-30.706 -20.202 -30.316 1.00 24.63	H
ATOM 5577 HA SER B 179	-31.797 -20.737 -32.725 1.00 23.28	H
ATOM 5578 HB2 SER B 179	-33.398 -19.598 -30.698 1.00 24.87	H
ATOM 5579 HB3 SER B 179	-33.878 -19.955 -32.169 1.00 24.87	H
ATOM 5580 HG SER B 179	-33.619 -22.061 -31.623 1.00 26.23	H
ATOM 5581 N SER B 180	-31.783 -18.345 -33.433 1.00 17.21	N
ANISOU 5581 N SER B 180	2751 2284 1503 -780 472 115	N
ATOM 5582 CA SER B 180	-31.605 -16.955 -33.822 1.00 16.95	C
ANISOU 5582 CA SER B 180	2574 2322 1545 -705 463 9	C
ATOM 5583 C SER B 180	-32.679 -16.570 -34.831 1.00 17.09	C
ANISOU 5583 C SER B 180	2453 2342 1700 -734 508 -58	C
ATOM 5584 O SER B 180	-33.275 -17.420 -35.501 1.00 16.84	O
ANISOU 5584 O SER B 180	2435 2252 1713 -792 515 -26	O
ATOM 5585 CB SER B 180	-30.214 -16.701 -34.418 1.00 16.90	C
ANISOU 5585 CB SER B 180	2567 2280 1574 -571 344 17	C
ATOM 5586 OG SER B 180	-30.084 -17.356 -35.678 1.00 16.05	O
ANISOU 5586 OG SER B 180	2461 2076 1562 -537 298 39	O
ATOM 5587 H SER B 180	-32.111 -18.841 -34.053 1.00 20.65	H
ATOM 5588 HA SER B 180	-31.707 -16.390 -33.040 1.00 20.34	H
ATOM 5589 HB2 SER B 180	-30.092 -15.747 -34.543 1.00 20.28	H
ATOM 5590 HB3 SER B 180	-29.541 -17.046 -33.810 1.00 20.28	H
ATOM 5591 HG SER B 180	-29.321 -17.213 -35.998 1.00 19.26	H
ATOM 5592 N ASN B 181	-32.923 -15.264 -34.917 1.00 16.32	N
ANISOU 5592 N ASN B 181	2221 2310 1671 -695 534 -149	N
ATOM 5593 CA ASN B 181	-33.779 -14.683 -35.947 1.00 17.39	C
ANISOU 5593 CA ASN B 181	2204 2450 1953 -690 544 -200	C
ATOM 5594 C ASN B 181	-33.194 -13.317 -36.266 1.00 15.99	C
ANISOU 5594 C ASN B 181	1939 2288 1849 -586 503 -261	C
ATOM 5595 O ASN B 181	-33.051 -12.484 -35.369 1.00 15.75	O
ANISOU 5595 O ASN B 181	1892 2305 1786 -572 553 -323	O
ATOM 5596 CB ASN B 181	-35.235 -14.568 -35.476 1.00 18.44	C
ANISOU 5596 CB ASN B 181	2243 2648 2117 -787 665 -245	C
ATOM 5597 CG ASN B 181	-36.198 -14.182 -36.593 1.00 18.14	C
ANISOU 5597 CG ASN B 181	2039 2618 2234 -786 654 -272	C
ATOM 5598 OD1 ASN B 181	-36.021 -13.171 -37.272 1.00 17.25	O
ANISOU 5598 OD1 ASN B 181	1827 2502 2226 -696 601 -302	O
ATOM 5599 ND2 ASN B 181	-37.248 -14.980 -36.764 1.00 18.84	N

ANISOU 5599 ND2 ASN B 181	2097	2724	2338	-896	700	-253	N
ATOM 5600 H ASN B 181	-32.595	-14.681	-34.377	1.00	19.59		H
ATOM 5601 HA ASN B 181	-33.751	-15.231	-36.746	1.00	20.87		H
ATOM 5602 HB2 ASN B 181	-35.519	-15.425	-35.120	1.00	22.13		H
ATOM 5603 HB3 ASN B 181	-35.290	-13.889	-34.786	1.00	22.13		H
ATOM 5604 HD21 ASN B 181	-37.823	-14.809	-37.380	1.00	22.61		H
ATOM 5605 HD22 ASN B 181	-37.352	-15.669	-36.259	1.00	22.61		H
ATOM 5606 N VAL B 182	-32.818	-13.102	-37.525	1.00	13.75		N
ANISOU 5606 N VAL B 182	1611	1962	1650	-527	416	-246	N
ATOM 5607 CA VAL B 182	-32.032	-11.935	-37.908	1.00	13.47		C
ANISOU 5607 CA VAL B 182	1525	1924	1671	-437	363	-282	C
ATOM 5608 C VAL B 182	-32.561	-11.408	-39.232	1.00	13.97		C
ANISOU 5608 C VAL B 182	1474	1971	1864	-418	319	-277	C
ATOM 5609 O VAL B 182	-32.822	-12.181	-40.158	1.00	14.06		O
ANISOU 5609 O VAL B 182	1493	1964	1886	-454	276	-231	O
ATOM 5610 CB VAL B 182	-30.527	-12.274	-38.033	1.00	13.79		C
ANISOU 5610 CB VAL B 182	1663	1936	1639	-382	281	-249	C
ATOM 5611 CG1 VAL B 182	-29.710	-11.022	-38.305	1.00	14.00		C
ANISOU 5611 CG1 VAL B 182	1636	1969	1714	-313	241	-293	C
ATOM 5612 CG2 VAL B 182	-30.012	-12.996	-36.798	1.00	14.01		C
ANISOU 5612 CG2 VAL B 182	1810	1981	1533	-401	297	-220	C
ATOM 5613 H VAL B 182	-33.008	-13.624	-38.181	1.00	16.50		H
ATOM 5614 HA VAL B 182	-32.136	-11.241	-37.238	1.00	16.17		H
ATOM 5615 HB VAL B 182	-30.408	-12.870	-38.789	1.00	16.54		H
ATOM 5616 HG11 VAL B 182	-28.774	-11.266	-38.379	1.00	16.80		H
ATOM 5617 HG12 VAL B 182	-30.014	-10.622	-39.135	1.00	16.80		H
ATOM 5618 HG13 VAL B 182	-29.834	-10.399	-37.572	1.00	16.80		H
ATOM 5619 HG21 VAL B 182	-29.069	-13.190	-36.916	1.00	16.81		H
ATOM 5620 HG22 VAL B 182	-30.138	-12.425	-36.024	1.00	16.81		H
ATOM 5621 HG23 VAL B 182	-30.508	-13.822	-36.685	1.00	16.81		H
ATOM 5622 N THR B 183	-32.692	-10.088	-39.332	1.00	13.79		N
ANISOU 5622 N THR B 183	1352	1950	1937	-366	323	-321	N
ATOM 5623 CA THR B 183	-32.987	-9.425	-40.598	1.00	14.87		C
ANISOU 5623 CA THR B 183	1392	2067	2192	-335	256	-293	C
ATOM 5624 C THR B 183	-31.786	-8.582	-41.009	1.00	13.81		C
ANISOU 5624 C THR B 183	1283	1898	2066	-272	195	-296	C
ATOM 5625 O THR B 183	-31.219	-7.861	-40.177	1.00	12.85		O
ANISOU 5625 O THR B 183	1179	1770	1931	-240	230	-352	O
ATOM 5626 CB THR B 183	-34.244	-8.561	-40.480	1.00	16.62		C
ANISOU 5626 CB THR B 183	1464	2299	2551	-320	307	-325	C
ATOM 5627 OG1 THR B 183	-35.346	-9.384	-40.074	1.00	18.01		O
ANISOU 5627 OG1 THR B 183	1605	2523	2716	-393	374	-329	O
ATOM 5628 CG2 THR B 183	-34.573	-7.894	-41.814	1.00	18.04		C
ANISOU 5628 CG2 THR B 183	1544	2457	2851	-285	214	-267	C
ATOM 5629 H THR B 183	-32.614	-9.546	-38.669	1.00	16.55		H
ATOM 5630 HA THR B 183	-33.140	-10.094	-41.283	1.00	17.85		H
ATOM 5631 HB THR B 183	-34.098	-7.867	-39.817	1.00	19.94		H
ATOM 5632 HG1 THR B 183	-36.042	-8.919	-40.006	1.00	21.62		H
ATOM 5633 HG21 THR B 183	-35.371	-7.350	-41.724	1.00	21.64		H
ATOM 5634 HG22 THR B 183	-33.835	-7.329	-42.093	1.00	21.64		H
ATOM 5635 HG23 THR B 183	-34.727	-8.570	-42.492	1.00	21.64		H
ATOM 5636 N VAL B 184	-31.407	-8.672	-42.290	1.00	13.48		N
ANISOU 5636 N VAL B 184	1242	1842	2036	-272	109	-240	N

ATOM 5637 CA VAL B 184	-30.191 -8.066 -42.825 1.00 13.52	C
ANISOU 5637 CA VAL B 184	1280 1826 2030 -236 54 -234	C
ATOM 5638 C VAL B 184	-30.558 -7.131 -43.974 1.00 14.23	C
ANISOU 5638 C VAL B 184	1290 1895 2223 -227 -7 -186	C
ATOM 5639 O VAL B 184	-31.432 -7.450 -44.789 1.00 15.20	O
ANISOU 5639 O VAL B 184	1363 2037 2377 -261 -46 -133	O
ATOM 5640 CB VAL B 184	-29.192 -9.138 -43.325 1.00 13.03	C
ANISOU 5640 CB VAL B 184	1311 1773 1866 -253 16 -214	C
ATOM 5641 CG1 VAL B 184	-27.845 -8.522 -43.633 1.00 12.40	C
ANISOU 5641 CG1 VAL B 184	1253 1690 1769 -220 -19 -226	C
ATOM 5642 CG2 VAL B 184	-29.049 -10.264 -42.314 1.00 14.21	C
ANISOU 5642 CG2 VAL B 184	1542 1929 1927 -263 59 -228	C
ATOM 5643 H VAL B 184	-31.859 -9.097 -42.886 1.00 16.17	H
ATOM 5644 HA VAL B 184	-29.758 -7.544 -42.132 1.00 16.22	H
ATOM 5645 HB VAL B 184	-29.535 -9.523 -44.147 1.00 15.63	H
ATOM 5646 HG11 VAL B 184	-27.243 -9.218 -43.942 1.00 14.88	H
ATOM 5647 HG12 VAL B 184	-27.956 -7.849 -44.322 1.00 14.88	H
ATOM 5648 HG13 VAL B 184	-27.492 -8.115 -42.826 1.00 14.88	H
ATOM 5649 HG21 VAL B 184	-28.419 -10.917 -42.656 1.00 17.05	H
ATOM 5650 HG22 VAL B 184	-28.724 -9.897 -41.477 1.00 17.05	H
ATOM 5651 HG23 VAL B 184	-29.915 -10.679 -42.179 1.00 17.05	H
ATOM 5652 N TRP B 185	-29.868 -5.995 -44.059 1.00 13.36	N
ANISOU 5652 N TRP B 185	1173 1747 2157 -190 -23 -195	N
ATOM 5653 CA TRP B 185	-30.041 -5.097 -45.204 1.00 15.02	C
ANISOU 5653 CA TRP B 185	1331 1925 2451 -186 -92 -125	C
ATOM 5654 C TRP B 185	-28.860 -4.153 -45.399 1.00 15.66	C
ANISOU 5654 C TRP B 185	1450 1967 2534 -176 -110 -132	C
ATOM 5655 O TRP B 185	-27.916 -4.119 -44.605 1.00 14.52	O
ANISOU 5655 O TRP B 185	1355 1827 2334 -169 -70 -202	O
ATOM 5656 CB TRP B 185	-31.338 -4.290 -45.067 1.00 16.31	C
ANISOU 5656 CB TRP B 185	1381 2049 2767 -145 -83 -108	C
ATOM 5657 CG TRP B 185	-31.370 -3.268 -43.962 1.00 16.06	C
ANISOU 5657 CG TRP B 185	1323 1952 2826 -87 -3 -191	C
ATOM 5658 CD1 TRP B 185	-31.116 -1.930 -44.075 1.00 16.81	C
ANISOU 5658 CD1 TRP B 185	1399 1954 3032 -44 -11 -190	C
ATOM 5659 CD2 TRP B 185	-31.701 -3.499 -42.586 1.00 16.23	C
ANISOU 5659 CD2 TRP B 185	1344 1992 2831 -79 104 -293	C
ATOM 5660 NE1 TRP B 185	-31.264 -1.312 -42.849 1.00 16.57	N
ANISOU 5660 NE1 TRP B 185	1354 1879 3062 -7 90 -302	N
ATOM 5661 CE2 TRP B 185	-31.623 -2.254 -41.921 1.00 17.00	C
ANISOU 5661 CE2 TRP B 185	1419 2012 3030 -31 162 -368	C
ATOM 5662 CE3 TRP B 185	-32.052 -4.636 -41.851 1.00 15.76	C
ANISOU 5662 CE3 TRP B 185	1310 2003 2675 -118 160 -328	C
ATOM 5663 CZ2 TRP B 185	-31.874 -2.119 -40.557 1.00 16.86	C
ANISOU 5663 CZ2 TRP B 185	1400 2001 3004 -27 279 -488	C
ATOM 5664 CZ3 TRP B 185	-32.308 -4.497 -40.494 1.00 16.40	C
ANISOU 5664 CZ3 TRP B 185	1393 2095 2744 -116 270 -428	C
ATOM 5665 CH2 TRP B 185	-32.215 -3.247 -39.863 1.00 16.07	C
ANISOU 5665 CH2 TRP B 185	1325 1991 2790 -73 331 -514	C
ATOM 5666 OXT TRP B 185	-28.822 -3.426 -46.394 1.00 15.92	O
ANISOU 5666 OXT TRP B 185	1464 1970 2617 -187 -171 -60	O
ATOM 5667 H TRP B 185	-29.298 -5.721 -43.475 1.00 16.03	H
ATOM 5668 HA TRP B 185	-30.117 -5.636 -46.007 1.00 18.03	H

ATOM	5669	HB2 TRP B 185	-31.494	-3.819	-45.901	1.00	19.57	H
ATOM	5670	HB3 TRP B 185	-32.067	-4.911	-44.907	1.00	19.57	H
ATOM	5671	HD1 TRP B 185	-30.882	-1.497	-44.865	1.00	20.17	H
ATOM	5672	HE1 TRP B 185	-31.147	-0.474	-42.693	1.00	19.88	H
ATOM	5673	HE3 TRP B 185	-32.114	-5.468	-42.263	1.00	18.91	H
ATOM	5674	HZ2 TRP B 185	-31.816	-1.292	-40.135	1.00	20.23	H
ATOM	5675	HZ3 TRP B 185	-32.541	-5.245	-39.994	1.00	19.68	H
ATOM	5676	HH2 TRP B 185	-32.392	-3.183	-38.952	1.00	19.29	H
TER	5677	TRP B 185						
ATOM	5678	N SER C 2	-5.314	3.845	7.444	1.00	37.06	N
ANISOU	5678	N SER C 2	5183	5326	3570	-107	-810 -522	N
ATOM	5679	CA SER C 2	-5.781	2.797	6.546	1.00	35.60	C
ANISOU	5679	CA SER C 2	4945	5114	3467	-37	-800 -453	C
ATOM	5680	C SER C 2	-7.303	2.707	6.594	1.00	34.03	C
ANISOU	5680	C SER C 2	4819	4842	3269	23	-738 -385	C
ATOM	5681	O SER C 2	-7.948	3.370	7.405	1.00	33.51	O
ANISOU	5681	O SER C 2	4871	4733	3129	52	-696 -386	O
ATOM	5682	CB SER C 2	-5.146	1.456	6.920	1.00	36.88	C
ANISOU	5682	CB SER C 2	5104	5274	3635	104	-894 -468	C
ATOM	5683	OG SER C 2	-5.486	1.083	8.247	1.00	37.59	O
ANISOU	5683	OG SER C 2	5322	5318	3641	179	-917 -444	O
ATOM	5684	HA SER C 2	-5.519	3.014	5.638	1.00	42.72	H
ATOM	5685	HB2 SER C 2	-5.467	0.774	6.309	1.00	44.26	H
ATOM	5686	HB3 SER C 2	-4.182	1.534	6.851	1.00	44.26	H
ATOM	5687	HG SER C 2	-5.213	1.665	8.787	1.00	45.10	H
ATOM	5688	N THR C 3	-7.872	1.887	5.716	1.00	33.49	N
ANISOU	5688	N THR C 3	4710	4744	3271	54	-748 -326	N
ATOM	5689	CA THR C 3	-9.320	1.768	5.630	1.00	32.64	C
ANISOU	5689	CA THR C 3	4676	4561	3163	95	-731 -241	C
ATOM	5690	C THR C 3	-9.887	1.026	6.841	1.00	30.55	C
ANISOU	5690	C THR C 3	4585	4215	2810	179	-752 -171	C
ATOM	5691	O THR C 3	-9.227	0.172	7.441	1.00	32.09	O
ANISOU	5691	O THR C 3	4820	4392	2980	231	-813 -186	O
ATOM	5692	CB THR C 3	-9.712	1.043	4.345	1.00	34.25	C
ANISOU	5692	CB THR C 3	4795	4757	3462	81	-771 -204	C
ATOM	5693	OG1 THR C 3	-9.087	-0.244	4.309	1.00	36.27	O
ANISOU	5693	OG1 THR C 3	5054	4982	3744	138	-839 -232	O
ATOM	5694	CG2 THR C 3	-9.265	1.839	3.115	1.00	34.42	C
ANISOU	5694	CG2 THR C 3	4695	4864	3517	-12	-733 -237	C
ATOM	5695	H THR C 3	-7.442	1.391	5.160	1.00	40.19	H
ATOM	5696	HA THR C 3	-9.712	2.655	5.609	1.00	39.16	H
ATOM	5697	HB THR C 3	-10.676	0.937	4.312	1.00	41.10	H
ATOM	5698	HG1 THR C 3	-8.252	-0.159	4.333	1.00	43.52	H
ATOM	5699	HG21 THR C 3	-9.519	1.369	2.305	1.00	41.30	H
ATOM	5700	HG22 THR C 3	-9.684	2.714	3.116	1.00	41.30	H
ATOM	5701	HG23 THR C 3	-8.302	1.951	3.125	1.00	41.30	H
ATOM	5702	N ASP C 4	-11.140	1.367	7.194	1.00	25.70	N
ANISOU	5702	N ASP C 4	4101	3547	2115	196	-693 -65	N
ATOM	5703	CA ASP C 4	-11.835	0.708	8.296	1.00	23.97	C
ANISOU	5703	CA ASP C 4	4079	3267	1762	244	-654 71	C
ATOM	5704	C ASP C 4	-13.329	0.553	8.022	1.00	20.85	C
ANISOU	5704	C ASP C 4	3646	2823	1454	189	-539 274	C
ATOM	5705	O ASP C 4	-14.122	0.479	8.967	1.00	21.84	O

ANISOU 5705	O	ASP C	4	3834	2938	1527	195	-356	417	O
ATOM 5706	CB	ASP C	4	-11.640	1.484	9.605	1.00	26.63		C
ANISOU 5706	CB	ASP C	4	4548	3631	1940	301	-533	24	C
ATOM 5707	CG	ASP C	4	-12.044	2.940	9.487	1.00	28.54		C
ANISOU 5707	CG	ASP C	4	4808	3887	2149	317	-406	-33	C
ATOM 5708	OD1	ASP C	4	-12.723	3.295	8.502	1.00	28.41		O
ANISOU 5708	OD1	ASP C	4	4665	3858	2274	282	-364	23	O
ATOM 5709	OD2	ASP C	4	-11.679	3.730	10.379	1.00	30.78		O
ANISOU 5709	OD2	ASP C	4	5179	4172	2344	351	-344	-133	O
ATOM 5710	H	ASP C	4	-11.604	1.978	6.805	1.00	30.84		H
ATOM 5711	HA	ASP C	4	-11.461	-0.178	8.416	1.00	28.77		H
ATOM 5712	HB2	ASP C	4	-12.183	1.077	10.298	1.00	31.96		H
ATOM 5713	HB3	ASP C	4	-10.703	1.452	9.856	1.00	31.96		H
ATOM 5714	N	TYR C	5	-13.736	0.496	6.752	1.00	18.68		N
ANISOU 5714	N	TYR C	5	3191	2537	1369	117	-605	292	N
ATOM 5715	CA	TYR C	5	-15.143	0.349	6.416	1.00	18.97		C
ANISOU 5715	CA	TYR C	5	3069	2548	1593	34	-501	476	C
ATOM 5716	C	TYR C	5	-15.308	-0.525	5.183	1.00	18.62		C
ANISOU 5716	C	TYR C	5	2926	2447	1701	-61	-708	489	C
ATOM 5717	O	TYR C	5	-14.585	-0.372	4.194	1.00	17.37		O
ANISOU 5717	O	TYR C	5	2748	2320	1533	-40	-857	344	O
ATOM 5718	CB	TYR C	5	-15.807	1.707	6.168	1.00	19.14		C
ANISOU 5718	CB	TYR C	5	2952	2625	1694	75	-337	483	C
ATOM 5719	CG	TYR C	5	-17.310	1.632	6.203	1.00	20.79		C
ANISOU 5719	CG	TYR C	5	2967	2853	2080	34	-184	684	C
ATOM 5720	CD1	TYR C	5	-17.988	1.580	7.411	1.00	23.55		C
ANISOU 5720	CD1	TYR C	5	3336	3241	2373	68	57	809	C
ATOM 5721	CD2	TYR C	5	-18.053	1.610	5.033	1.00	21.19		C
ANISOU 5721	CD2	TYR C	5	2797	2911	2343	-36	-282	751	C
ATOM 5722	CE1	TYR C	5	-19.364	1.508	7.453	1.00	25.89		C
ANISOU 5722	CE1	TYR C	5	3390	3601	2846	26	223	1002	C
ATOM 5723	CE2	TYR C	5	-19.435	1.542	5.065	1.00	23.22		C
ANISOU 5723	CE2	TYR C	5	2816	3217	2790	-78	-163	936	C
ATOM 5724	CZ	TYR C	5	-20.082	1.493	6.282	1.00	26.22		C
ANISOU 5724	CZ	TYR C	5	3173	3654	3136	-50	102	1063	C
ATOM 5725	OH	TYR C	5	-21.455	1.419	6.330	1.00	29.58		O
ANISOU 5725	OH	TYR C	5	3302	4174	3764	-97	247	1256	O
ATOM 5726	H	TYR C	5	-13.213	0.540	6.071	1.00	22.41		H
ATOM 5727	HA	TYR C	5	-15.602	-0.081	7.155	1.00	22.77		H
ATOM 5728	HB2	TYR C	5	-15.522	2.329	6.855	1.00	22.97		H
ATOM 5729	HB3	TYR C	5	-15.543	2.033	5.294	1.00	22.97		H
ATOM 5730	HD1	TYR C	5	-17.506	1.591	8.206	1.00	28.26		H
ATOM 5731	HD2	TYR C	5	-17.615	1.646	4.213	1.00	25.43		H
ATOM 5732	HE1	TYR C	5	-19.805	1.474	8.272	1.00	31.07		H
ATOM 5733	HE2	TYR C	5	-19.923	1.529	4.273	1.00	27.87		H
ATOM 5734	HH	TYR C	5	-21.771	1.418	5.552	1.00	35.50		H
ATOM 5735	N	TRP C	6	-16.280	-1.432	5.251	1.00	20.15		N
ANISOU 5735	N	TRP C	6	3065	2563	2027	-178	-712	666	N
ATOM 5736	CA	TRP C	6	-16.615	-2.338	4.155	1.00	20.50		C
ANISOU 5736	CA	TRP C	6	3045	2519	2227	-294	-933	681	C
ATOM 5737	C	TRP C	6	-18.070	-2.099	3.791	1.00	22.02		C
ANISOU 5737	C	TRP C	6	2978	2749	2641	-417	-855	854	C
ATOM 5738	O	TRP C	6	-18.968	-2.357	4.602	1.00	23.83		O

ANISOU 5738	O	TRP C	6	3128	2980	2948	-506	-691	1050	O
ATOM 5739	CB	TRP C	6	-16.373	-3.795	4.559	1.00	21.87		C
ANISOU 5739	CB	TRP C	6	3413	2517	2381	-356	-1079	730	C
ATOM 5740	CG	TRP C	6	-16.895	-4.838	3.601	1.00	23.09		C
ANISOU 5740	CG	TRP C	6	3544	2521	2709	-506	-1314	758	C
ATOM 5741	CD1	TRP C	6	-17.747	-5.864	3.901	1.00	26.23		C
ANISOU 5741	CD1	TRP C	6	3962	2754	3251	-705	-1361	953	C
ATOM 5742	CD2	TRP C	6	-16.575	-4.981	2.213	1.00	22.75		C
ANISOU 5742	CD2	TRP C	6	3482	2467	2694	-482	-1545	582	C
ATOM 5743	NE1	TRP C	6	-17.979	-6.633	2.787	1.00	26.72		N
ANISOU 5743	NE1	TRP C	6	4029	2677	3447	-814	-1638	888	N
ATOM 5744	CE2	TRP C	6	-17.275	-6.110	1.736	1.00	25.67		C
ANISOU 5744	CE2	TRP C	6	3882	2645	3227	-660	-1751	652	C
ATOM 5745	CE3	TRP C	6	-15.775	-4.261	1.322	1.00	20.87		C
ANISOU 5745	CE3	TRP C	6	3208	2365	2357	-339	-1559	372	C
ATOM 5746	CZ2	TRP C	6	-17.197	-6.532	0.412	1.00	25.67		C
ANISOU 5746	CZ2	TRP C	6	3908	2586	3261	-670	-2012	495	C
ATOM 5747	CZ3	TRP C	6	-15.698	-4.688	0.008	1.00	20.85		C
ANISOU 5747	CZ3	TRP C	6	3184	2327	2412	-322	-1619	229	C
ATOM 5748	CH2	TRP C	6	-16.406	-5.807	-0.434	1.00	23.74		C
ANISOU 5748	CH2	TRP C	6	3612	2500	2907	-460	-1836	279	C
ATOM 5749	H	TRP C	6	-16.775	-1.545	5.945	1.00	24.18		H
ATOM 5750	HA	TRP C	6	-16.064	-2.135	3.383	1.00	24.61		H
ATOM 5751	HB2	TRP C	6	-15.417	-3.933	4.645	1.00	26.25		H
ATOM 5752	HB3	TRP C	6	-16.800	-3.949	5.416	1.00	26.25		H
ATOM 5753	HD1	TRP C	6	-18.109	-6.025	4.742	1.00	31.48		H
ATOM 5754	HE1	TRP C	6	-18.490	-7.324	2.753	1.00	32.07		H
ATOM 5755	HE3	TRP C	6	-15.299	-3.515	1.608	1.00	25.05		H
ATOM 5756	HZ2	TRP C	6	-17.668	-7.276	0.114	1.00	30.81		H
ATOM 5757	HZ3	TRP C	6	-15.167	-4.217	-0.594	1.00	25.02		H
ATOM 5758	HH2	TRP C	6	-16.335	-6.068	-1.323	1.00	28.48		H
ATOM 5759	N	LEU C	7	-18.294	-1.596	2.582	1.00	21.12		N
ANISOU 5759	N	LEU C	7	2721	2688	2617	-417	-969	792	N
ATOM 5760	CA	LEU C	7	-19.624	-1.335	2.059	1.00	22.58		C
ANISOU 5760	CA	LEU C	7	2630	2928	3023	-507	-962	936	C
ATOM 5761	C	LEU C	7	-19.959	-2.410	1.041	1.00	24.30		C
ANISOU 5761	C	LEU C	7	2823	3043	3367	-672	-1261	934	C
ATOM 5762	O	LEU C	7	-19.181	-2.653	0.113	1.00	22.61		O
ANISOU 5762	O	LEU C	7	2750	2789	3051	-630	-1473	758	O
ATOM 5763	CB	LEU C	7	-19.697	0.052	1.414	1.00	21.61		C
ANISOU 5763	CB	LEU C	7	2396	2917	2898	-374	-914	883	C
ATOM 5764	CG	LEU C	7	-21.041	0.422	0.775	1.00	23.48		C
ANISOU 5764	CG	LEU C	7	2330	3229	3364	-414	-949	1024	C
ATOM 5765	CD1	LEU C	7	-22.158	0.414	1.804	1.00	25.69		C
ANISOU 5765	CD1	LEU C	7	2389	3577	3796	-443	-708	1218	C
ATOM 5766	CD2	LEU C	7	-20.976	1.761	0.094	1.00	22.97		C
ANISOU 5766	CD2	LEU C	7	2231	3228	3269	-258	-941	975	C
ATOM 5767	H	LEU C	7	-17.667	-1.391	2.030	1.00	25.35		H
ATOM 5768	HA	LEU C	7	-20.272	-1.376	2.780	1.00	27.10		H
ATOM 5769	HB2	LEU C	7	-19.507	0.717	2.094	1.00	25.93		H
ATOM 5770	HB3	LEU C	7	-19.022	0.101	0.718	1.00	25.93		H
ATOM 5771	HG	LEU C	7	-21.257	-0.241	0.101	1.00	28.18		H
ATOM 5772	HD11	LEU C	7	-22.991	0.652	1.368	1.00	30.83		H

ATOM	5773	HD12	LEU	C	7	-22.227	-0.474	2.188	1.00	30.83		H
ATOM	5774	HD13	LEU	C	7	-21.952	1.060	2.498	1.00	30.83		H
ATOM	5775	HD21	LEU	C	7	-21.842	1.959	-0.296	1.00	27.57		H
ATOM	5776	HD22	LEU	C	7	-20.746	2.438	0.750	1.00	27.57		H
ATOM	5777	HD23	LEU	C	7	-20.299	1.729	-0.601	1.00	27.57		H
ATOM	5778	N	ASN	C	8	-21.113	-3.059	1.219	1.00	27.88		N
ANISOU	5778	N	ASN	C	8	3096	3461	4034	-867	-1278	1123	N
ATOM	5779	CA	ASN	C	8	-21.475	-4.192	0.372	1.00	32.06		C
ANISOU	5779	CA	ASN	C	8	3636	3848	4699	-1067	-1594	1118	C
ATOM	5780	C	ASN	C	8	-22.999	-4.194	0.208	1.00	36.48		C
ANISOU	5780	C	ASN	C	8	3825	4487	5548	-1262	-1603	1328	C
ATOM	5781	O	ASN	C	8	-23.728	-4.988	0.814	1.00	39.42		O
ANISOU	5781	O	ASN	C	8	4099	4794	6086	-1489	-1564	1516	O
ATOM	5782	CB	ASN	C	8	-20.965	-5.502	0.966	1.00	33.97		C
ANISOU	5782	CB	ASN	C	8	4155	3861	4891	-1168	-1678	1122	C
ATOM	5783	CG	ASN	C	8	-21.438	-6.709	0.200	1.00	36.78		C
ANISOU	5783	CG	ASN	C	8	4555	4012	5409	-1400	-2012	1122	C
ATOM	5784	OD1	ASN	C	8	-21.822	-6.613	-0.961	1.00	36.94		O
ANISOU	5784	OD1	ASN	C	8	4477	4065	5495	-1420	-2207	1036	O
ATOM	5785	ND2	ASN	C	8	-21.410	-7.864	0.853	1.00	39.92		N
ANISOU	5785	ND2	ASN	C	8	5147	4175	5847	-1555	-2067	1218	N
ATOM	5786	H	ASN	C	8	-21.697	-2.863	1.819	1.00	33.45		H
ATOM	5787	HA	ASN	C	8	-21.074	-4.078	-0.504	1.00	38.48		H
ATOM	5788	HB2	ASN	C	8	-19.995	-5.499	0.953	1.00	40.76		H
ATOM	5789	HB3	ASN	C	8	-21.285	-5.581	1.878	1.00	40.76		H
ATOM	5790	HD21	ASN	C	8	-21.669	-8.585	0.462	1.00	47.91		H
ATOM	5791	HD22	ASN	C	8	-21.133	-7.891	1.666	1.00	47.91		H
ATOM	5792	N	PHE	C	9	-23.485	-3.300	-0.648	1.00	36.54		N
ANISOU	5792	N	PHE	C	9	3614	4645	5624	-1179	-1667	1308	N
ATOM	5793	CA	PHE	C	9	-24.913	-3.073	-0.808	1.00	40.59		C
ANISOU	5793	CA	PHE	C	9	3718	5292	6412	-1292	-1662	1493	C
ATOM	5794	C	PHE	C	9	-25.378	-3.534	-2.180	1.00	42.64		C
ANISOU	5794	C	PHE	C	9	4049	5469	6682	-1321	-1914	1369	C
ATOM	5795	O	PHE	C	9	-24.746	-3.234	-3.199	1.00	41.65		O
ANISOU	5795	O	PHE	C	9	4146	5312	6366	-1165	-2014	1165	O
ATOM	5796	CB	PHE	C	9	-25.265	-1.594	-0.620	1.00	40.53		C
ANISOU	5796	CB	PHE	C	9	3489	5497	6415	-1045	-1425	1542	C
ATOM	5797	CG	PHE	C	9	-26.646	-1.227	-1.117	1.00	44.34		C
ANISOU	5797	CG	PHE	C	9	3617	6113	7119	-1045	-1446	1647	C
ATOM	5798	CD1	PHE	C	9	-27.710	-1.109	-0.237	1.00	47.35		C
ANISOU	5798	CD1	PHE	C	9	3630	6652	7708	-1086	-1196	1854	C
ATOM	5799	CD2	PHE	C	9	-26.877	-0.996	-2.466	1.00	45.28		C
ANISOU	5799	CD2	PHE	C	9	3810	6204	7189	-974	-1668	1512	C
ATOM	5800	CE1	PHE	C	9	-28.974	-0.771	-0.694	1.00	50.90		C
ANISOU	5800	CE1	PHE	C	9	3772	7231	8335	-1048	-1216	1911	C
ATOM	5801	CE2	PHE	C	9	-28.138	-0.666	-2.926	1.00	48.43		C
ANISOU	5801	CE2	PHE	C	9	3912	6723	7766	-958	-1707	1586	C
ATOM	5802	CZ	PHE	C	9	-29.185	-0.549	-2.040	1.00	51.31		C
ANISOU	5802	CZ	PHE	C	9	3891	7246	8360	-990	-1499	1780	C
ATOM	5803	H	PHE	C	9	-22.997	-2.805	-1.155	1.00	43.84		H
ATOM	5804	HA	PHE	C	9	-25.393	-3.585	-0.138	1.00	48.71		H
ATOM	5805	HB2	PHE	C	9	-25.224	-1.380	0.325	1.00	48.64		H
ATOM	5806	HB3	PHE	C	9	-24.622	-1.055	-1.107	1.00	48.64		H

ATOM	5807	HD1 PHE C	9	-27.574	-1.257	0.671	1.00	56.82		H
ATOM	5808	HD2 PHE C	9	-26.175	-1.073	-3.071	1.00	54.34		H
ATOM	5809	HE1 PHE C	9	-29.681	-0.696	-0.095	1.00	61.07		H
ATOM	5810	HE2 PHE C	9	-28.277	-0.514	-3.833	1.00	58.12		H
ATOM	5811	HZ PHE C	9	-30.033	-0.324	-2.348	1.00	61.58		H
ATOM	5812	N THR C	10	-26.503	-4.244	-2.190	1.00	45.55		N
ANISOU	5812	N THR C	10	4217	5824	7267	-1528	-1981	1498	N
ATOM	5813	CA THR C	10	-27.217	-4.605	-3.406	1.00	48.28		C
ANISOU	5813	CA THR C	10	4536	6138	7669	-1582	-2219	1420	C
ATOM	5814	C THR C	10	-28.695	-4.603	-3.051	1.00	52.34		C
ANISOU	5814	C THR C	10	4622	6799	8464	-1729	-2153	1627	C
ATOM	5815	O THR C	10	-29.071	-5.137	-2.005	1.00	53.43		O
ANISOU	5815	O THR C	10	4621	6941	8740	-1910	-2000	1805	O
ATOM	5816	CB THR C	10	-26.781	-5.983	-3.934	1.00	50.32		C
ANISOU	5816	CB THR C	10	5119	6141	7861	-1721	-2465	1292	C
ATOM	5817	OG1 THR C	10	-27.270	-6.173	-5.269	1.00	53.17		O
ANISOU	5817	OG1 THR C	10	5500	6490	8214	-1722	-2695	1171	O
ATOM	5818	CG2 THR C	10	-27.302	-7.112	-3.037	1.00	53.77		C
ANISOU	5818	CG2 THR C	10	5491	6454	8484	-2011	-2471	1472	C
ATOM	5819	H THR C	10	-26.883	-4.538	-1.476	1.00	54.66		H
ATOM	5820	HA THR C	10	-27.057	-3.940	-4.093	1.00	57.93		H
ATOM	5821	HB THR C	10	-25.812	-6.027	-3.942	1.00	60.39		H
ATOM	5822	HG1 THR C	10	-27.032	-6.925	-5.558	1.00	63.81		H
ATOM	5823	HG21 THR C	10	-27.017	-7.971	-3.386	1.00	64.52		H
ATOM	5824	HG22 THR C	10	-26.955	-7.007	-2.137	1.00	64.52		H
ATOM	5825	HG23 THR C	10	-28.271	-7.090	-3.006	1.00	64.52		H
ATOM	5826	N ASP C	11	-29.527	-3.996	-3.895	1.00	55.41		N
ANISOU	5826	N ASP C	11	4802	7326	8927	-1648	-2245	1605	N
ATOM	5827	CA ASP C	11	-30.952	-3.947	-3.590	1.00	60.76		C
ANISOU	5827	CA ASP C	11	5033	8179	9876	-1760	-2180	1781	C
ATOM	5828	C ASP C	11	-31.624	-5.256	-3.983	1.00	65.88		C
ANISOU	5828	C ASP C	11	5657	8707	10666	-2071	-2420	1800	C
ATOM	5829	O ASP C	11	-32.638	-5.253	-4.686	1.00	68.98		O
ANISOU	5829	O ASP C	11	5809	9199	11202	-2133	-2586	1804	O
ATOM	5830	CB ASP C	11	-31.620	-2.760	-4.290	1.00	60.96		C
ANISOU	5830	CB ASP C	11	4824	8402	9936	-1533	-2208	1754	C
ATOM	5831	CG ASP C	11	-31.617	-2.886	-5.800	1.00	61.37		C
ANISOU	5831	CG ASP C	11	5055	8385	9877	-1512	-2543	1579	C
ATOM	5832	OD1 ASP C	11	-30.822	-3.689	-6.334	1.00	60.04		O
ANISOU	5832	OD1 ASP C	11	5251	8016	9545	-1592	-2707	1437	O
ATOM	5833	OD2 ASP C	11	-32.407	-2.175	-6.456	1.00	63.63		O
ANISOU	5833	OD2 ASP C	11	5122	8828	10228	-1392	-2635	1579	O
ATOM	5834	H ASP C	11	-29.299	-3.616	-4.631	1.00	66.50		H
ATOM	5835	HA ASP C	11	-31.064	-3.831	-2.634	1.00	72.92		H
ATOM	5836	HB2 ASP C	11	-32.543	-2.700	-3.997	1.00	73.15		H
ATOM	5837	HB3 ASP C	11	-31.145	-1.947	-4.057	1.00	73.15		H
ATOM	5838	N GLY C	12	-31.056	-6.381	-3.542	1.00	67.09		N
ANISOU	5838	N GLY C	12	6072	8636	10782	-2263	-2460	1807	N
ATOM	5839	CA GLY C	12	-31.629	-7.692	-3.777	1.00	71.89		C
ANISOU	5839	CA GLY C	12	6699	9084	11531	-2575	-2680	1838	C
ATOM	5840	C GLY C	12	-31.650	-8.162	-5.218	1.00	72.87		C
ANISOU	5840	C GLY C	12	7018	9078	11589	-2591	-3053	1637	C
ATOM	5841	O GLY C	12	-31.882	-9.353	-5.450	1.00	77.69		O

ANISOU 5841	O	GLY C 12	7750	9491	12279	-2836	-3268	1624	O
ATOM 5842	H	GLY C 12	-30.321	-6.403	-3.095	1.00	80.50		H
ATOM 5843	HA2	GLY C 12	-31.131	-8.346	-3.262	1.00	86.27		H
ATOM 5844	HA3	GLY C 12	-32.544	-7.694	-3.454	1.00	86.27		H
ATOM 5845	N	GLY C 13	-31.410	-7.283	-6.192	1.00	67.47		N
ANISOU 5845	N	GLY C 13	6391	8493	10751	-2339	-3129	1482	N
ATOM 5846	CA	GLY C 13	-31.581	-7.656	-7.586	1.00	65.86		C
ANISOU 5846	CA	GLY C 13	6329	8219	10475	-2352	-3456	1305	C
ATOM 5847	C	GLY C 13	-30.407	-8.453	-8.116	1.00	61.07		C
ANISOU 5847	C	GLY C 13	6223	7350	9631	-2304	-3595	1100	C
ATOM 5848	O	GLY C 13	-29.248	-8.052	-7.969	1.00	56.85		O
ANISOU 5848	O	GLY C 13	5940	6785	8875	-2089	-3445	1004	O
ATOM 5849	H	GLY C 13	-31.150	-6.473	-6.068	1.00	80.96		H
ATOM 5850	HA2	GLY C 13	-32.385	-8.190	-7.682	1.00	79.03		H
ATOM 5851	HA3	GLY C 13	-31.677	-6.855	-8.125	1.00	79.03		H
ATOM 5852	N	GLY C 14	-30.709	-9.589	-8.737	1.00	63.62		N
ANISOU 5852	N	GLY C 14	6681	7487	10003	-2498	-3883	1023	N
ATOM 5853	CA	GLY C 14	-29.692	-10.339	-9.459	1.00	62.93		C
ANISOU 5853	CA	GLY C 14	7058	7168	9685	-2408	-4042	794	C
ATOM 5854	C	GLY C 14	-28.648	-10.938	-8.538	1.00	60.75		C
ANISOU 5854	C	GLY C 14	7062	6685	9337	-2384	-3915	799	C
ATOM 5855	O	GLY C 14	-28.952	-11.431	-7.446	1.00	62.11		O
ANISOU 5855	O	GLY C 14	7135	6775	9689	-2586	-3840	986	O
ATOM 5856	H	GLY C 14	-31.492	-9.945	-8.754	1.00	76.34		H
ATOM 5857	HA2	GLY C 14	-30.113	-11.058	-9.956	1.00	75.52		H
ATOM 5858	HA3	GLY C 14	-29.245	-9.752	-10.089	1.00	75.52		H
ATOM 5859	N	ILE C 15	-27.397	-10.912	-8.994	1.00	58.87		N
ANISOU 5859	N	ILE C 15	7171	6374	8825	-2132	-3884	591	N
ATOM 5860	CA	ILE C 15	-26.268	-11.471	-8.258	1.00	57.69		C
ANISOU 5860	CA	ILE C 15	7315	6034	8573	-2051	-3795	551	C
ATOM 5861	C	ILE C 15	-25.214	-10.384	-8.092	1.00	52.84		C
ANISOU 5861	C	ILE C 15	6743	5592	7741	-1759	-3523	475	C
ATOM 5862	O	ILE C 15	-24.713	-9.838	-9.083	1.00	51.25		O
ANISOU 5862	O	ILE C 15	6628	5512	7334	-1552	-3496	300	O
ATOM 5863	CB	ILE C 15	-25.667	-12.696	-8.967	1.00	60.71		C
ANISOU 5863	CB	ILE C 15	8091	6137	8839	-2015	-4037	344	C
ATOM 5864	H	ILE C 15	-27.173	-10.565	-9.748	1.00	70.65		H
ATOM 5865	HA	ILE C 15	-26.564	-11.745	-7.376	1.00	69.23		H
ATOM 5866	N	VAL C 16	-24.878	-10.072	-6.848	1.00	50.23		N
ANISOU 5866	N	VAL C 16	6350	5284	7451	-1760	-3320	612	N
ATOM 5867	CA	VAL C 16	-23.764	-9.190	-6.528	1.00	45.99		C
ANISOU 5867	CA	VAL C 16	5887	4870	6716	-1510	-3081	534	C
ATOM 5868	C	VAL C 16	-22.860	-9.964	-5.580	1.00	44.24		C
ANISOU 5868	C	VAL C 16	5912	4447	6452	-1497	-3067	531	C
ATOM 5869	O	VAL C 16	-23.212	-10.179	-4.412	1.00	43.36		O
ANISOU 5869	O	VAL C 16	5710	4281	6485	-1674	-3022	736	O
ATOM 5870	CB	VAL C 16	-24.231	-7.866	-5.905	1.00	44.46		C
ANISOU 5870	CB	VAL C 16	5371	4926	6596	-1495	-2859	698	C
ATOM 5871	H	VAL C 16	-25.292	-10.367	-6.154	1.00	60.28		H
ATOM 5872	HA	VAL C 16	-23.266	-8.990	-7.335	1.00	55.18		H
ATOM 5873	N	ASN C 17	-21.714	-10.410	-6.082	1.00	44.04		N
ANISOU 5873	N	ASN C 17	6185	4321	6226	-1286	-3099	308	N
ATOM 5874	CA	ASN C 17	-20.781	-11.230	-5.313	1.00	44.60		C

ANISOU 5874	CA	ASN C 17	6524	4181	6239	-1218	-3129	272	C
ATOM 5875	C	ASN C 17	-19.585	-10.360	-4.943	1.00	40.47		C
ANISOU 5875	C	ASN C 17	6020	3829	5528	-965	-2879	172	C
ATOM 5876	O	ASN C 17	-18.702	-10.114	-5.772	1.00	39.34		O
ANISOU 5876	O	ASN C 17	5950	3795	5201	-732	-2790	-36	O
ATOM 5877	CB	ASN C 17	-20.359	-12.466	-6.107	1.00	47.17		C
ANISOU 5877	CB	ASN C 17	7156	4267	6500	-1135	-3359	88	C
ATOM 5878	H	ASN C 17	-21.448	-10.248	-6.884	1.00	52.84		H
ATOM 5879	HA	ASN C 17	-21.210	-11.525	-4.495	1.00	53.52		H
ATOM 5880	N	ALA C 18	-19.558	-9.906	-3.691	1.00	38.63		N
ANISOU 5880	N	ALA C 18	5702	3638	5338	-1033	-2759	330	N
ATOM 5881	CA	ALA C 18	-18.544	-8.987	-3.195	1.00	34.63		C
ANISOU 5881	CA	ALA C 18	5180	3311	4668	-829	-2525	257	C
ATOM 5882	C	ALA C 18	-17.569	-9.721	-2.286	1.00	33.91		C
ANISOU 5882	C	ALA C 18	5345	3042	4498	-734	-2570	217	C
ATOM 5883	O	ALA C 18	-17.982	-10.505	-1.430	1.00	36.15		O
ANISOU 5883	O	ALA C 18	5745	3104	4885	-925	-2729	379	O
ATOM 5884	CB	ALA C 18	-19.189	-7.836	-2.423	1.00	33.10		C
ANISOU 5884	CB	ALA C 18	4715	3313	4549	-943	-2370	449	C
ATOM 5885	H	ALA C 18	-20.137	-10.125	-3.094	1.00	46.36		H
ATOM 5886	HA	ALA C 18	-18.049	-8.617	-3.942	1.00	41.56		H
ATOM 5887	HB1	ALA C 18	-18.492	-7.240	-2.105	1.00	39.72		H
ATOM 5888	HB2	ALA C 18	-19.789	-7.357	-3.015	1.00	39.72		H
ATOM 5889	HB3	ALA C 18	-19.683	-8.198	-1.672	1.00	39.72		H
ATOM 5890	N	VAL C 19	-16.277	-9.456	-2.465	1.00	32.00		N
ANISOU 5890	N	VAL C 19	5170	2911	4077	-452	-2420	19	N
ATOM 5891	CA	VAL C 19	-15.224	-10.129	-1.710	1.00	32.86		C
ANISOU 5891	CA	VAL C 19	5505	2878	4101	-290	-2459	-52	C
ATOM 5892	C	VAL C 19	-14.468	-9.087	-0.896	1.00	29.13		C
ANISOU 5892	C	VAL C 19	4912	2646	3511	-172	-2204	-62	C
ATOM 5893	O	VAL C 19	-13.820	-8.195	-1.458	1.00	27.80		O
ANISOU 5893	O	VAL C 19	4571	2741	3250	-38	-1986	-180	O
ATOM 5894	CB	VAL C 19	-14.268	-10.904	-2.630	1.00	34.63		C
ANISOU 5894	CB	VAL C 19	5877	3035	4244	-39	-2525	-281	C
ATOM 5895	CG1	VAL C 19	-13.139	-11.548	-1.830	1.00	35.10		C
ANISOU 5895	CG1	VAL C 19	6140	2965	4232	180	-2573	-357	C
ATOM 5896	CG2	VAL C 19	-15.026	-11.966	-3.412	1.00	37.69		C
ANISOU 5896	CG2	VAL C 19	6417	3176	4727	-145	-2798	-281	C
ATOM 5897	H	VAL C 19	-15.980	-8.879	-3.030	1.00	38.40		H
ATOM 5898	HA	VAL C 19	-15.627	-10.760	-1.093	1.00	39.43		H
ATOM 5899	HB	VAL C 19	-13.872	-10.288	-3.266	1.00	41.55		H
ATOM 5900	HG11	VAL C 19	-12.556	-12.028	-2.439	1.00	42.12		H
ATOM 5901	HG12	VAL C 19	-12.641	-10.853	-1.372	1.00	42.12		H
ATOM 5902	HG13	VAL C 19	-13.521	-12.163	-1.184	1.00	42.12		H
ATOM 5903	HG21	VAL C 19	-14.403	-12.440	-3.984	1.00	45.23		H
ATOM 5904	HG22	VAL C 19	-15.438	-12.583	-2.787	1.00	45.23		H
ATOM 5905	HG23	VAL C 19	-15.708	-11.534	-3.950	1.00	45.23		H
ATOM 5906	N	ASN C 20	-14.536	-9.216	0.426	1.00	28.37		N
ANISOU 5906	N	ASN C 20	4921	2459	3400	-243	-2243	80	N
ATOM 5907	CA	ASN C 20	-13.776	-8.382	1.354	1.00	26.05		C
ANISOU 5907	CA	ASN C 20	4558	2366	2972	-113	-2022	70	C
ATOM 5908	C	ASN C 20	-12.348	-8.921	1.412	1.00	26.63		C
ANISOU 5908	C	ASN C 20	4743	2417	2959	154	-2009	-123	C

ATOM 5909 O ASN C 20	-12.034 -9.853 2.156 1.00 26.90	O
ANISOU 5909 O ASN C 20	5020 2234 2966 212 -2161 -103	O
ATOM 5910 CB ASN C 20	-14.443 -8.388 2.726 1.00 27.27	C
ANISOU 5910 CB ASN C 20	4804 2457 3099 -267 -2050 342	C
ATOM 5911 CG ASN C 20	-13.718 -7.530 3.746 1.00 25.68	C
ANISOU 5911 CG ASN C 20	4563 2454 2741 -120 -1812 328	C
ATOM 5912 OD1 ASN C 20	-12.515 -7.268 3.635 1.00 24.42	O
ANISOU 5912 OD1 ASN C 20	4351 2415 2514 82 -1710 115	O
ATOM 5913 ND2 ASN C 20	-14.453 -7.099 4.767 1.00 25.69	N
ANISOU 5913 ND2 ASN C 20	4557 2494 2711 -233 -1669 576	N
ATOM 5914 H ASN C 20	-15.031 -9.798 0.822 1.00 34.04	H
ATOM 5915 HA ASN C 20	-13.750 -7.470 1.026 1.00 31.26	H
ATOM 5916 HB2 ASN C 20	-15.346 -8.047 2.637 1.00 32.72	H
ATOM 5917 HB3 ASN C 20	-14.464 -9.297 3.061 1.00 32.72	H
ATOM 5918 HD21 ASN C 20	-14.096 -6.609 5.377 1.00 30.83	H
ATOM 5919 HD22 ASN C 20	-15.285 -7.310 4.818 1.00 30.83	H
ATOM 5920 N GLY C 21	-11.471 -8.329 0.610 1.00 34.47	N
ANISOU 5920 N GLY C 21	3964 4963 4170 1746 -1731 -5	N
ATOM 5921 CA GLY C 21	-10.107 -8.794 0.507 1.00 35.74	C
ANISOU 5921 CA GLY C 21	4134 5184 4260 1906 -1724 -98	C
ATOM 5922 C GLY C 21	-9.278 -8.405 1.715 1.00 37.99	C
ANISOU 5922 C GLY C 21	4276 5627 4533 1841 -1636 7	C
ATOM 5923 O GLY C 21	-9.724 -7.723 2.638 1.00 34.29	O
ANISOU 5923 O GLY C 21	3728 5211 4089 1683 -1581 128	O
ATOM 5924 H GLY C 21	-11.648 -7.650 0.113 1.00 41.37	H
ATOM 5925 HA2 GLY C 21	-10.099 -9.761 0.426 1.00 42.88	H
ATOM 5926 HA3 GLY C 21	-9.694 -8.415 -0.285 1.00 42.88	H
ATOM 5927 N SER C 22	-8.033 -8.863 1.704 1.00 44.35	N
ANISOU 5927 N SER C 22	5056 6505 5289 1982 -1635 -45	N
ATOM 5928 CA SER C 22	-7.143 -8.572 2.815 1.00 47.99	C
ANISOU 5928 CA SER C 22	5383 7109 5743 1932 -1583 45	C
ATOM 5929 C SER C 22	-6.830 -7.082 2.835 1.00 46.45	C
ANISOU 5929 C SER C 22	5129 7079 5443 1849 -1432 10	C
ATOM 5930 O SER C 22	-6.609 -6.460 1.791 1.00 47.29	O
ANISOU 5930 O SER C 22	5264 7253 5449 1916 -1345 -104	O
ATOM 5931 CB SER C 22	-5.860 -9.399 2.711 1.00 50.91	C
ANISOU 5931 CB SER C 22	5720 7533 6090 2118 -1620 7	C
ATOM 5932 OG SER C 22	-4.824 -8.676 2.077 1.00 51.35	O
ANISOU 5932 OG SER C 22	5717 7776 6019 2213 -1498 -84	O
ATOM 5933 H SER C 22	-7.686 -9.338 1.077 1.00 53.22	H
ATOM 5934 HA SER C 22	-7.585 -8.800 3.648 1.00 57.59	H
ATOM 5935 HB2 SER C 22	-5.571 -9.642 3.604 1.00 61.09	H
ATOM 5936 HB3 SER C 22	-6.044 -10.199 2.195 1.00 61.09	H
ATOM 5937 HG SER C 22	-4.131 -9.148 2.031 1.00 61.62	H
ATOM 5938 N GLY C 23	-6.846 -6.505 4.031 1.00 43.55	N
ANISOU 5938 N GLY C 23	4691 6769 5089 1710 -1411 111	N
ATOM 5939 CA GLY C 23	-6.581 -5.092 4.187 1.00 40.73	C
ANISOU 5939 CA GLY C 23	4294 6546 4635 1624 -1296 84	C
ATOM 5940 C GLY C 23	-7.499 -4.214 3.365 1.00 39.80	C
ANISOU 5940 C GLY C 23	4255 6398 4468 1582 -1216 16	C
ATOM 5941 O GLY C 23	-8.641 -3.946 3.756 1.00 38.96	O
ANISOU 5941 O GLY C 23	4196 6211 4398 1485 -1222 68	O
ATOM 5942 H GLY C 23	-7.009 -6.917 4.768 1.00 52.27	H

ATOM 5943	HA2 GLY C 23	-6.684	-4.849	5.120	1.00	48.87		H
ATOM 5944	HA3 GLY C 23	-5.667	-4.907	3.922	1.00	48.87		H
ATOM 5945	N GLY C 24	-7.012	-3.760	2.214	1.00	39.02		N
ANISOU 5945	N GLY C 24	4164	6377	4284	1666	-1142	-86	N
ATOM 5946	CA GLY C 24	-7.745	-2.781	1.438	1.00	36.18		C
ANISOU 5946	CA GLY C 24	3872	6009	3865	1629	-1062	-147	C
ATOM 5947	C GLY C 24	-8.287	-3.313	0.133	1.00	34.96		C
ANISOU 5947	C GLY C 24	3826	5757	3702	1744	-1090	-244	C
ATOM 5948	O GLY C 24	-9.019	-2.608	-0.566	1.00	33.89		O
ANISOU 5948	O GLY C 24	3758	5591	3526	1722	-1042	-294	O
ATOM 5949	H GLY C 24	-6.264	-4.003	1.867	1.00	46.82		H
ATOM 5950	HA2 GLY C 24	-8.492	-2.454	1.963	1.00	43.41		H
ATOM 5951	HA3 GLY C 24	-7.163	-2.032	1.240	1.00	43.41		H
ATOM 5952	N ASN C 25	-7.930	-4.542	-0.219	1.00	35.96		N
ANISOU 5952	N ASN C 25	3982	5824	3858	1879	-1179	-278	N
ATOM 5953	CA ASN C 25	-8.421	-5.133	-1.450	1.00	37.05		C
ANISOU 5953	CA ASN C 25	4257	5845	3974	2010	-1241	-392	C
ATOM 5954	C ASN C 25	-9.865	-5.584	-1.288	1.00	35.32		C
ANISOU 5954	C ASN C 25	4114	5422	3885	1910	-1360	-345	C
ATOM 5955	O ASN C 25	-10.307	-5.977	-0.205	1.00	36.09		O
ANISOU 5955	O ASN C 25	4150	5462	4100	1792	-1421	-207	O
ATOM 5956	CB ASN C 25	-7.545	-6.313	-1.872	1.00	39.39		C
ANISOU 5956	CB ASN C 25	4587	6136	4243	2216	-1315	-455	C
ATOM 5957	CG ASN C 25	-8.100	-7.050	-3.073	1.00	41.33		C
ANISOU 5957	CG ASN C 25	5024	6223	4458	2369	-1425	-591	C
ATOM 5958	OD1 ASN C 25	-8.921	-7.959	-2.933	1.00	42.50		O
ANISOU 5958	OD1 ASN C 25	5261	6161	4727	2342	-1589	-581	O
ATOM 5959	ND2 ASN C 25	-7.659	-6.658	-4.264	1.00	41.43		N
ANISOU 5959	ND2 ASN C 25	5106	6334	4300	2530	-1349	-710	N
ATOM 5960	H ASN C 25	-7.407	-5.050	0.237	1.00	43.15		H
ATOM 5961	HA ASN C 25	-8.390	-4.468	-2.156	1.00	44.46		H
ATOM 5962	HB2 ASN C 25	-6.662	-5.984	-2.103	1.00	47.27		H
ATOM 5963	HB3 ASN C 25	-7.483	-6.941	-1.136	1.00	47.27		H
ATOM 5964	HD21 ASN C 25	-7.944	-7.046	-4.977	1.00	49.71		H
ATOM 5965	HD22 ASN C 25	-7.089	-6.017	-4.322	1.00	49.71		H
ATOM 5966	N TYR C 26	-10.609	-5.485	-2.382	1.00	32.50		N
ANISOU 5966	N TYR C 26	3879	4970	3500	1956	-1394	-442	N
ATOM 5967	CA TYR C 26	-11.922	-6.092	-2.476	1.00	31.46		C
ANISOU 5967	CA TYR C 26	3817	4637	3500	1886	-1544	-400	C
ATOM 5968	C TYR C 26	-12.155	-6.448	-3.935	1.00	32.51		C
ANISOU 5968	C TYR C 26	4132	4652	3567	2041	-1637	-576	C
ATOM 5969	O TYR C 26	-11.488	-5.929	-4.830	1.00	32.44		O
ANISOU 5969	O TYR C 26	4181	4750	3395	2180	-1540	-706	O
ATOM 5970	CB TYR C 26	-13.023	-5.162	-1.945	1.00	29.89		C
ANISOU 5970	CB TYR C 26	3546	4450	3359	1699	-1486	-277	C
ATOM 5971	CG TYR C 26	-13.319	-3.959	-2.825	1.00	28.66		C
ANISOU 5971	CG TYR C 26	3446	4347	3096	1710	-1380	-372	C
ATOM 5972	CD1 TYR C 26	-14.243	-4.040	-3.855	1.00	29.17		C
ANISOU 5972	CD1 TYR C 26	3623	4283	3179	1738	-1470	-441	C
ATOM 5973	CD2 TYR C 26	-12.684	-2.744	-2.612	1.00	27.34		C
ANISOU 5973	CD2 TYR C 26	3222	4350	2816	1689	-1208	-386	C
ATOM 5974	CE1 TYR C 26	-14.523	-2.946	-4.654	1.00	28.06		C
ANISOU 5974	CE1 TYR C 26	3534	4188	2940	1757	-1376	-518	C

ATOM 5975	CE2 TYR C 26	-12.960	-1.639	-3.408	1.00	26.92		C
ANISOU 5975	CE2 TYR C 26	3218	4341	2669	1703	-1114	-456	C
ATOM 5976	CZ TYR C 26	-13.881	-1.752	-4.429	1.00	26.70		C
ANISOU 5976	CZ TYR C 26	3299	4189	2655	1742	-1193	-520	C
ATOM 5977	OH TYR C 26	-14.165	-0.670	-5.232	1.00	25.88		O
ANISOU 5977	OH TYR C 26	3248	4124	2461	1766	-1105	-582	O
ATOM 5978	H TYR C 26	-10.369	-5.065	-3.093	1.00	39.00		H
ATOM 5979	HA TYR C 26	-11.936	-6.911	-1.955	1.00	37.75		H
ATOM 5980	HB2 TYR C 26	-13.844	-5.671	-1.859	1.00	35.86		H
ATOM 5981	HB3 TYR C 26	-12.753	-4.829	-1.074	1.00	35.86		H
ATOM 5982	HD1 TYR C 26	-14.681	-4.845	-4.012	1.00	35.01		H
ATOM 5983	HD2 TYR C 26	-12.064	-2.668	-1.924	1.00	32.81		H
ATOM 5984	HE1 TYR C 26	-15.143	-3.018	-5.343	1.00	33.67		H
ATOM 5985	HE2 TYR C 26	-12.524	-0.832	-3.257	1.00	32.30		H
ATOM 5986	HH TYR C 26	-13.709	-0.006	-4.992	1.00	31.05		H
ATOM 5987	N SER C 27	-13.108	-7.343	-4.164	1.00	33.98		N
ANISOU 5987	N SER C 27	4411	4622	3877	2018	-1835	-569	N
ATOM 5988	CA SER C 27	-13.425	-7.799	-5.508	1.00	35.60		C
ANISOU 5988	CA SER C 27	4832	4665	4030	2163	-1980	-751	C
ATOM 5989	C SER C 27	-14.932	-7.851	-5.669	1.00	35.33		C
ANISOU 5989	C SER C 27	4827	4451	4145	2015	-2127	-683	C
ATOM 5990	O SER C 27	-15.668	-8.017	-4.695	1.00	35.11		O
ANISOU 5990	O SER C 27	4659	4403	4278	1834	-2161	-481	O
ATOM 5991	CB SER C 27	-12.811	-9.182	-5.797	1.00	39.55		C
ANISOU 5991	CB SER C 27	5480	5031	4518	2345	-2155	-861	C
ATOM 5992	OG SER C 27	-11.397	-9.113	-5.808	1.00	40.72		O
ANISOU 5992	OG SER C 27	5592	5374	4505	2516	-2013	-920	O
ATOM 5993	H SER C 27	-13.591	-7.704	-3.550	1.00	40.77		H
ATOM 5994	HA SER C 27	-13.070	-7.167	-6.153	1.00	42.72		H
ATOM 5995	HB2 SER C 27	-13.092	-9.802	-5.107	1.00	47.46		H
ATOM 5996	HB3 SER C 27	-13.119	-9.489	-6.664	1.00	47.46		H
ATOM 5997	HG SER C 27	-11.074	-9.871	-5.966	1.00	48.86		H
ATOM 5998	N VAL C 28	-15.387	-7.707	-6.912	1.00	35.96		N
ANISOU 5998	N VAL C 28	5083	4419	4161	2102	-2212	-838	N
ATOM 5999	CA VAL C 28	-16.807	-7.747	-7.220	1.00	36.92		C
ANISOU 5999	CA VAL C 28	5238	4365	4426	1972	-2375	-783	C
ATOM 6000	C VAL C 28	-17.000	-8.487	-8.535	1.00	39.57		C
ANISOU 6000	C VAL C 28	5859	4454	4720	2131	-2618	-1002	C
ATOM 6001	O VAL C 28	-16.218	-8.317	-9.476	1.00	40.21		O
ANISOU 6001	O VAL C 28	6103	4585	4590	2354	-2562	-1203	O
ATOM 6002	CB VAL C 28	-17.411	-6.330	-7.301	1.00	34.76		C
ANISOU 6002	CB VAL C 28	4859	4235	4114	1871	-2201	-713	C
ATOM 6003	CG1 VAL C 28	-18.914	-6.393	-7.125	1.00	35.51		C
ANISOU 6003	CG1 VAL C 28	4882	4217	4394	1690	-2338	-555	C
ATOM 6004	CG2 VAL C 28	-16.772	-5.407	-6.250	1.00	32.86		C
ANISOU 6004	CG2 VAL C 28	4420	4251	3815	1798	-1938	-592	C
ATOM 6005	H VAL C 28	-14.885	-7.583	-7.599	1.00	43.15		H
ATOM 6006	HA VAL C 28	-17.273	-8.237	-6.524	1.00	44.31		H
ATOM 6007	HB VAL C 28	-17.227	-5.958	-8.177	1.00	41.71		H
ATOM 6008	HG11 VAL C 28	-19.276	-5.494	-7.179	1.00	42.62		H
ATOM 6009	HG12 VAL C 28	-19.291	-6.944	-7.829	1.00	42.62		H
ATOM 6010	HG13 VAL C 28	-19.115	-6.779	-6.258	1.00	42.62		H
ATOM 6011	HG21 VAL C 28	-17.169	-4.524	-6.322	1.00	39.43		H

ATOM 6012	HG22 VAL C 28	-16.937 -5.773 -5.367 1.00 39.43	H
ATOM 6013	HG23 VAL C 28	-15.818 -5.355 -6.414 1.00 39.43	H
ATOM 6014	N ASN C 29	-18.033 -9.325 -8.584 1.00 41.14	N
ANISOU 6014	N ASN C 29	6124 4391 5114 2020 -2897 -953	N
ATOM 6015	CA ASN C 29	-18.494 -9.963 -9.814 1.00 43.19	C
ANISOU 6015	CA ASN C 29	6677 4362 5372 2126 -3185 -1149	C
ATOM 6016	C ASN C 29	-20.014 -9.971 -9.754 1.00 43.95	C
ANISOU 6016	C ASN C 29	6703 4293 5704 1892 -3369 -991	C
ATOM 6017	O ASN C 29	-20.585 -10.526 -8.811 1.00 44.78	O
ANISOU 6017	O ASN C 29	6651 4339 6024 1699 -3463 -780	O
ATOM 6018	CB ASN C 29	-17.943 -11.395 -9.957 1.00 46.01	C
ANISOU 6018	CB ASN C 29	7260 4488 5732 2269 -3445 -1296	C
ATOM 6019	CG ASN C 29	-16.421 -11.443 -10.078 1.00 46.32	C
ANISOU 6019	CG ASN C 29	7378 4711 5512 2547 -3286 -1462	C
ATOM 6020	OD1 ASN C 29	-15.850 -11.047 -11.091 1.00 46.68	O
ANISOU 6020	OD1 ASN C 29	7611 4828 5296 2803 -3230 -1686	O
ATOM 6021	ND2 ASN C 29	-15.761 -11.962 -9.049 1.00 47.35	N
ANISOU 6021	ND2 ASN C 29	7363 4930 5699 2513 -3217 -1340	N
ATOM 6022	H ASN C 29	-18.498 -9.546 -7.895 1.00 49.36	H
ATOM 6023	HA ASN C 29	-18.213 -9.441 -10.582 1.00 51.83	H
ATOM 6024	HB2 ASN C 29	-18.198 -11.909 -9.175 1.00 55.21	H
ATOM 6025	HB3 ASN C 29	-18.319 -11.798 -10.755 1.00 55.21	H
ATOM 6026	HD21 ASN C 29	-14.903 -12.011 -9.069 1.00 56.82	H
ATOM 6027	HD22 ASN C 29	-16.192 -12.249 -8.362 1.00 56.82	H
ATOM 6028	N TRP C 30	-20.676 -9.351 -10.733 1.00 44.13	N
ANISOU 6028	N TRP C 30	6825 4257 5687 1913 -3414 -1071	N
ATOM 6029	CA TRP C 30	-22.115 -9.138 -10.641 1.00 44.71	C
ANISOU 6029	CA TRP C 30	6774 4243 5969 1689 -3541 -887	C
ATOM 6030	C TRP C 30	-22.780 -9.333 -11.999 1.00 47.27	C
ANISOU 6030	C TRP C 30	7369 4287 6303 1757 -3820 -1056	C
ATOM 6031	O TRP C 30	-22.129 -9.295 -13.047 1.00 47.58	O
ANISOU 6031	O TRP C 30	7679 4267 6134 2005 -3833 -1316	O
ATOM 6032	CB TRP C 30	-22.422 -7.739 -10.096 1.00 41.87	C
ANISOU 6032	CB TRP C 30	6143 4207 5560 1590 -3224 -711	C
ATOM 6033	CG TRP C 30	-22.152 -6.614 -11.067 1.00 40.77	C
ANISOU 6033	CG TRP C 30	6106 4179 5204 1738 -3062 -870	C
ATOM 6034	CD1 TRP C 30	-23.070 -5.977 -11.855 1.00 41.03	C
ANISOU 6034	CD1 TRP C 30	6179 4164 5245 1714 -3124 -877	C
ATOM 6035	CD2 TRP C 30	-20.889 -5.991 -11.341 1.00 38.87	C
ANISOU 6035	CD2 TRP C 30	5930 4124 4716 1932 -2813 -1024	C
ATOM 6036	NE1 TRP C 30	-22.458 -4.997 -12.601 1.00 39.76	N
ANISOU 6036	NE1 TRP C 30	6117 4136 4852 1885 -2926 -1028	N
ATOM 6037	CE2 TRP C 30	-21.121 -4.984 -12.304 1.00 38.50	C
ANISOU 6037	CE2 TRP C 30	5967 4124 4536 2017 -2731 -1114	C
ATOM 6038	CE3 TRP C 30	-19.589 -6.177 -10.862 1.00 38.18	C
ANISOU 6038	CE3 TRP C 30	5822 4175 4509 2039 -2655 -1075	C
ATOM 6039	CZ2 TRP C 30	-20.102 -4.176 -12.799 1.00 36.98	C
ANISOU 6039	CZ2 TRP C 30	5836 4110 4104 2204 -2493 -1242	C
ATOM 6040	CZ3 TRP C 30	-18.576 -5.368 -11.356 1.00 36.71	C
ANISOU 6040	CZ3 TRP C 30	5684 4179 4086 2217 -2422 -1201	C
ATOM 6041	CH2 TRP C 30	-18.841 -4.379 -12.312 1.00 36.23	C
ANISOU 6041	CH2 TRP C 30	5701 4160 3903 2296 -2340 -1277	C
ATOM 6042	H TRP C 30	-20.316 -9.047 -11.453 1.00 52.96	H

ATOM	6043	HA	TRP	C	30	-22.491	-9.788	-10.027	1.00	53.65		H
ATOM	6044	HB2	TRP	C	30	-23.361	-7.700	-9.855	1.00	50.25		H
ATOM	6045	HB3	TRP	C	30	-21.876	-7.586	-9.309	1.00	50.25		H
ATOM	6046	HD1	TRP	C	30	-23.978	-6.179	-11.884	1.00	49.23		H
ATOM	6047	HE1	TRP	C	30	-22.850	-4.479	-13.165	1.00	47.71		H
ATOM	6048	HE3	TRP	C	30	-19.408	-6.829	-10.224	1.00	45.82		H
ATOM	6049	HZ2	TRP	C	30	-20.274	-3.518	-13.435	1.00	44.37		H
ATOM	6050	HZ3	TRP	C	30	-17.706	-5.484	-11.048	1.00	44.05		H
ATOM	6051	HH2	TRP	C	30	-18.142	-3.855	-12.629	1.00	43.47		H
ATOM	6052	N	SER	C	31	-24.100	-9.535	-11.961	1.00	49.62		N
ANISOU	6052	N	SER	C	31	7587	4422	6842	1545	-4042	-890	N
ATOM	6053	CA	SER	C	31	-24.870	-9.765	-13.175	1.00	54.74		C
ANISOU	6053	CA	SER	C	31	8482	4771	7546	1574	-4354	-1015	C
ATOM	6054	C	SER	C	31	-26.351	-9.500	-12.924	1.00	62.71		C
ANISOU	6054	C	SER	C	31	9265	5756	8803	1308	-4470	-750	C
ATOM	6055	O	SER	C	31	-26.880	-9.847	-11.864	1.00	59.47		O
ANISOU	6055	O	SER	C	31	8599	5390	8608	1090	-4484	-485	O
ATOM	6056	CB	SER	C	31	-24.672	-11.198	-13.687	1.00	56.06		C
ANISOU	6056	CB	SER	C	31	9016	4483	7803	1667	-4795	-1218	C
ATOM	6057	H	SER	C	31	-24.570	-9.543	-11.241	1.00	59.54		H
ATOM	6058	HA	SER	C	31	-24.566	-9.154	-13.864	1.00	65.69		H
ATOM	6059	N	ASN	C	32	-27.010	-8.894	-13.917	1.00	74.36		N
ANISOU	6059	N	ASN	C	32	10837	7175	10242	1344	-4549	-813	N
ATOM	6060	CA	ASN	C	32	-28.455	-8.654	-13.889	1.00	83.45		C
ANISOU	6060	CA	ASN	C	32	11798	8289	11618	1120	-4697	-581	C
ATOM	6061	C	ASN	C	32	-28.891	-8.031	-12.566	1.00	84.87		C
ANISOU	6061	C	ASN	C	32	11549	8819	11878	943	-4415	-263	C
ATOM	6062	O	ASN	C	32	-29.962	-8.331	-12.034	1.00	86.86		O
ANISOU	6062	O	ASN	C	32	11581	9033	12387	724	-4551	2	O
ATOM	6063	CB	ASN	C	32	-29.226	-9.947	-14.159	1.00	89.42		C
ANISOU	6063	CB	ASN	C	32	12696	8607	12673	967	-5182	-531	C
ATOM	6064	H	ASN	C	32	-26.631	-8.607	-14.634	1.00	89.23		H
ATOM	6065	HA	ASN	C	32	-28.678	-8.027	-14.595	1.00	100.13		H
ATOM	6066	N	THR	C	33	-28.059	-7.139	-12.040	1.00	82.53		N
ANISOU	6066	N	THR	C	33	11139	8862	11357	1053	-4021	-284	N
ATOM	6067	CA	THR	C	33	-28.307	-6.545	-10.737	1.00	79.70		C
ANISOU	6067	CA	THR	C	33	10426	8835	11023	945	-3738	-16	C
ATOM	6068	C	THR	C	33	-29.487	-5.580	-10.802	1.00	75.15		C
ANISOU	6068	C	THR	C	33	9644	8425	10483	872	-3673	159	C
ATOM	6069	O	THR	C	33	-30.105	-5.367	-11.848	1.00	78.52		O
ANISOU	6069	O	THR	C	33	10189	8714	10929	884	-3851	83	O
ATOM	6070	CB	THR	C	33	-27.063	-5.808	-10.246	1.00	78.07		C
ANISOU	6070	CB	THR	C	33	10196	8903	10563	1087	-3373	-102	C
ATOM	6071	OG1	THR	C	33	-26.765	-4.721	-11.134	1.00	76.84		O
ANISOU	6071	OG1	THR	C	33	10162	8840	10195	1228	-3229	-269	O
ATOM	6072	CG2	THR	C	33	-25.874	-6.748	-10.189	1.00	78.86		C
ANISOU	6072	CG2	THR	C	33	10480	8868	10617	1184	-3428	-270	C
ATOM	6073	H	THR	C	33	-27.340	-6.861	-12.421	1.00	99.04		H
ATOM	6074	HA	THR	C	33	-28.519	-7.245	-10.100	1.00	95.64		H
ATOM	6075	HB	THR	C	33	-27.223	-5.462	-9.354	1.00	93.68		H
ATOM	6076	HG1	THR	C	33	-27.412	-4.185	-11.158	1.00	92.21		H
ATOM	6077	HG21	THR	C	33	-25.090	-6.271	-9.877	1.00	94.63		H
ATOM	6078	HG22	THR	C	33	-26.060	-7.481	-9.582	1.00	94.63		H

ATOM 6079	HG23 THR C 33	-25.694 -7.107 -11.072 1.00 94.63	H
ATOM 6080	N GLY C 34	-29.815 -5.011 -9.648 1.00 66.61	N
ANISOU 6080	N GLY C 34	8259 7646 9403 817 -3424 396	N
ATOM 6081	CA GLY C 34	-30.565 -3.775 -9.597 1.00 59.96	C
ANISOU 6081	CA GLY C 34	7237 7063 8482 843 -3239 516	C
ATOM 6082	C GLY C 34	-29.578 -2.650 -9.365 1.00 52.91	C
ANISOU 6082	C GLY C 34	6366 6428 7310 990 -2890 419	C
ATOM 6083	O GLY C 34	-28.682 -2.430 -10.185 1.00 50.84	O
ANISOU 6083	O GLY C 34	6342 6074 6900 1093 -2871 178	O
ATOM 6084	H GLY C 34	-29.611 -5.328 -8.875 1.00 79.93	H
ATOM 6085	HA2 GLY C 34	-31.031 -3.627 -10.434 1.00 71.95	H
ATOM 6086	HA3 GLY C 34	-31.206 -3.797 -8.869 1.00 71.95	H
ATOM 6087	N SER C 35	-29.713 -1.948 -8.248 1.00 46.55	N
ANISOU 6087	N SER C 35	4451 6710 6525 -38 -1724 1778	N
ATOM 6088	CA SER C 35	-28.699 -1.010 -7.793 1.00 42.53	C
ANISOU 6088	CA SER C 35	4166 6184 5809 205 -1324 1614	C
ATOM 6089	C SER C 35	-27.803 -1.688 -6.768 1.00 38.46	C
ANISOU 6089	C SER C 35	3852 5436 5325 77 -1342 1532	C
ATOM 6090	O SER C 35	-28.277 -2.469 -5.937 1.00 41.14	O
ANISOU 6090	O SER C 35	4080 5726 5823 -163 -1448 1756	O
ATOM 6091	CB SER C 35	-29.339 0.233 -7.182 1.00 44.12	C
ANISOU 6091	CB SER C 35	4209 6636 5920 382 -867 1861	C
ATOM 6092	OG SER C 35	-29.494 1.247 -8.158 1.00 45.24	O
ANISOU 6092	OG SER C 35	4337 6921 5929 634 -744 1798	O
ATOM 6093	H SER C 35	-30.395 -1.999 -7.727 1.00 55.86	H
ATOM 6094	HA SER C 35	-28.152 -0.735 -8.545 1.00 51.04	H
ATOM 6095	HB2 SER C 35	-30.212 -0.002 -6.829 1.00 52.95	H
ATOM 6096	HB3 SER C 35	-28.771 0.564 -6.469 1.00 52.95	H
ATOM 6097	HG SER C 35	-29.847 1.927 -7.812 1.00 54.28	H
ATOM 6098	N PHE C 36	-26.504 -1.392 -6.836 1.00 32.44	N
ANISOU 6098	N PHE C 36	3365 4547 4414 232 -1246 1243	N
ATOM 6099	CA PHE C 36	-25.549 -1.892 -5.855 1.00 29.00	C
ANISOU 6099	CA PHE C 36	3120 3916 3983 151 -1242 1162	C
ATOM 6100	C PHE C 36	-24.360 -0.945 -5.775 1.00 25.99	C
ANISOU 6100	C PHE C 36	2938 3527 3409 356 -974 962	C
ATOM 6101	O PHE C 36	-24.021 -0.261 -6.745 1.00 25.02	O
ANISOU 6101	O PHE C 36	2850 3484 3172 538 -905 819	O
ATOM 6102	CB PHE C 36	-25.050 -3.296 -6.211 1.00 29.43	C
ANISOU 6102	CB PHE C 36	3309 3714 4157 24 -1684 984	C
ATOM 6103	CG PHE C 36	-24.090 -3.311 -7.359 1.00 28.54	C
ANISOU 6103	CG PHE C 36	3376 3548 3919 240 -1806 638	C
ATOM 6104	CD1 PHE C 36	-24.554 -3.333 -8.659 1.00 30.32	C
ANISOU 6104	CD1 PHE C 36	3563 3849 4109 330 -1993 543	C
ATOM 6105	CD2 PHE C 36	-22.728 -3.278 -7.139 1.00 26.99	C
ANISOU 6105	CD2 PHE C 36	3370 3264 3620 369 -1726 432	C
ATOM 6106	CE1 PHE C 36	-23.679 -3.333 -9.718 1.00 29.75	C
ANISOU 6106	CE1 PHE C 36	3660 3774 3871 572 -2071 243	C
ATOM 6107	CE2 PHE C 36	-21.848 -3.275 -8.194 1.00 26.70	C
ANISOU 6107	CE2 PHE C 36	3454 3244 3448 599 -1795 159	C
ATOM 6108	CZ PHE C 36	-22.328 -3.305 -9.488 1.00 27.86	C
ANISOU 6108	CZ PHE C 36	3580 3476 3530 715 -1954 63	C
ATOM 6109	H PHE C 36	-26.151 -0.900 -7.447 1.00 38.93	H
ATOM 6110	HA PHE C 36	-25.972 -1.929 -4.983 1.00 34.80	H

ATOM	6111	HB2 PHE C	36	-24.598	-3.674	-5.440	1.00	35.31	H
ATOM	6112	HB3 PHE C	36	-25.810	-3.848	-6.452	1.00	35.31	H
ATOM	6113	HD1 PHE C	36	-25.470	-3.351	-8.820	1.00	36.39	H
ATOM	6114	HD2 PHE C	36	-22.403	-3.256	-6.268	1.00	32.39	H
ATOM	6115	HE1 PHE C	36	-24.002	-3.353	-10.589	1.00	35.70	H
ATOM	6116	HE2 PHE C	36	-20.932	-3.258	-8.037	1.00	32.04	H
ATOM	6117	HZ PHE C	36	-21.734	-3.307	-10.204	1.00	33.43	H
ATOM	6118	N AVAL C	37	-23.738	-0.905	-4.600	0.64	25.51	N
ANISOU	6118	N AVAL C	37	3003	3377	3314	307	-841 980	N
ATOM	6119	N BVAL C	37	-23.727	-0.919	-4.608	0.36	25.46	N
ANISOU	6119	N BVAL C	37	2997	3368	3308	306	-846 977	N
ATOM	6120	CA AVAL C	37	-22.507	-0.154	-4.374	0.64	23.56	C
ANISOU	6120	CA AVAL C	37	2945	3085	2922	427	-664 810	C
ATOM	6121	CA BVAL C	37	-22.492	-0.168	-4.410	0.36	23.51	C
ANISOU	6121	CA BVAL C	37	2939	3078	2916	429	-670 804	C
ATOM	6122	C AVAL C	37	-21.643	-0.978	-3.430	0.64	22.88	C
ANISOU	6122	C AVAL C	37	2995	2824	2875	308	-797 755	C
ATOM	6123	C BVAL C	37	-21.633	-0.945	-3.426	0.36	22.97	C
ANISOU	6123	C BVAL C	37	3008	2837	2882	311	-789 755	C
ATOM	6124	O AVAL C	37	-22.108	-1.391	-2.363	0.64	23.82	O
ANISOU	6124	O AVAL C	37	3103	2908	3038	171	-787 938	O
ATOM	6125	O BVAL C	37	-22.090	-1.300	-2.335	0.36	23.73	O
ANISOU	6125	O BVAL C	37	3098	2904	3016	180	-764 937	O
ATOM	6126	CB AVAL C	37	-22.773	1.245	-3.775	0.64	22.97	C
ANISOU	6126	CB AVAL C	37	2912	3109	2706	533	-295 922	C
ATOM	6127	CB BVAL C	37	-22.763	1.270	-3.914	0.36	22.93	C
ANISOU	6127	CB BVAL C	37	2902	3111	2702	544	-302 910	C
ATOM	6128	CG1AVAL C	37	-21.463	1.997	-3.580	0.64	21.48	C
ANISOU	6128	CG1AVAL C	37	2929	2835	2399	594	-187 758	C
ATOM	6129	CG1BVAL C	37	-23.612	1.262	-2.645	0.36	24.21	C
ANISOU	6129	CG1BVAL C	37	3025	3318	2857	479	-151 1151	C
ATOM	6130	CG2AVAL C	37	-23.724	2.070	-4.646	0.64	23.53	C
ANISOU	6130	CG2AVAL C	37	2844	3353	2745	679	-159 1014	C
ATOM	6131	CG2BVAL C	37	-21.453	2.018	-3.687	0.36	21.49	C
ANISOU	6131	CG2BVAL C	37	2924	2842	2400	602	-190 750	C
ATOM	6132	H AVAL C	37	-24.019	-1.316	-3.899	0.64	30.62	H
ATOM	6133	H BVAL C	37	-23.996	-1.335	-3.905	0.36	30.55	H
ATOM	6134	HA AVAL C	37	-22.033	-0.046	-5.213	0.64	28.27	H
ATOM	6135	HA BVAL C	37	-22.014	-0.112	-5.252	0.36	28.21	H
ATOM	6136	HB AVAL C	37	-23.185	1.139	-2.904	0.64	27.56	H
ATOM	6137	HB BVAL C	37	-23.259	1.746	-4.597	0.36	27.52	H
ATOM	6138	HG11AVAL C	37	-21.653	2.870	-3.204	0.64	25.78	H
ATOM	6139	HG11BVAL C	37	-23.763	2.177	-2.361	0.36	29.05	H
ATOM	6140	HG12AVAL C	37	-20.897	1.492	-2.975	0.64	25.78	H
ATOM	6141	HG12BVAL C	37	-24.459	0.830	-2.836	0.36	29.05	H
ATOM	6142	HG13AVAL C	37	-21.024	2.095	-4.440	0.64	25.78	H
ATOM	6143	HG13BVAL C	37	-23.140	0.774	-1.953	0.36	29.05	H
ATOM	6144	HG21AVAL C	37	-23.980	1.543	-5.419	0.64	28.24	H
ATOM	6145	HG21BVAL C	37	-20.713	1.430	-3.903	0.36	25.79	H
ATOM	6146	HG22AVAL C	37	-24.510	2.298	-4.125	0.64	28.24	H
ATOM	6147	HG22BVAL C	37	-21.433	2.800	-4.260	0.36	25.79	H
ATOM	6148	HG23AVAL C	37	-23.270	2.878	-4.931	0.64	28.24	H
ATOM	6149	HG23BVAL C	37	-21.401	2.287	-2.756	0.36	25.79	H

ATOM 6150 N VAL C 38	-20.395 -1.227 -3.820 1.00 22.04	N
ANISOU 6150 N VAL C 38	2998 2635 2741 376 -914 533	N
ATOM 6151 CA VAL C 38	-19.481 -2.043 -3.027 1.00 22.13	C
ANISOU 6151 CA VAL C 38	3128 2488 2793 300 -1070 472	C
ATOM 6152 C VAL C 38	-18.123 -1.364 -2.974 1.00 20.90	C
ANISOU 6152 C VAL C 38	3057 2357 2527 397 -961 333	C
ATOM 6153 O VAL C 38	-17.632 -0.866 -3.990 1.00 20.44	O
ANISOU 6153 O VAL C 38	2956 2402 2409 537 -909 216	O
ATOM 6154 CB VAL C 38	-19.332 -3.464 -3.614 1.00 23.46	C
ANISOU 6154 CB VAL C 38	3319 2505 3091 293 -1440 354	C
ATOM 6155 CG1 VAL C 38	-18.352 -4.270 -2.789 1.00 24.17	C
ANISOU 6155 CG1 VAL C 38	3539 2426 3220 255 -1597 303	C
ATOM 6156 CG2 VAL C 38	-20.683 -4.162 -3.695 1.00 25.17	C
ANISOU 6156 CG2 VAL C 38	3440 2671 3453 131 -1614 523	C
ATOM 6157 HA VAL C 38	-19.821 -2.120 -2.122 1.00 26.56	H
ATOM 6158 HB VAL C 38	-18.977 -3.395 -4.515 1.00 28.16	H
ATOM 6159 HG11 VAL C 38	-18.272 -5.157 -3.173 1.00 29.01	H
ATOM 6160 HG12 VAL C 38	-17.490 -3.826 -2.799 1.00 29.01	H
ATOM 6161 HG13 VAL C 38	-18.683 -4.332 -1.879 1.00 29.01	H
ATOM 6162 HG21 VAL C 38	-20.558 -5.049 -4.067 1.00 30.20	H
ATOM 6163 HG22 VAL C 38	-21.059 -4.226 -2.804 1.00 30.20	H
ATOM 6164 HG23 VAL C 38	-21.272 -3.644 -4.266 1.00 30.20	H
ATOM 6165 N GLY C 39	-17.494 -1.380 -1.806 1.00 20.79	N
ANISOU 6165 N GLY C 39	3150 2263 2485 310 -948 367	N
ATOM 6166 CA GLY C 39	-16.137 -0.881 -1.732 1.00 20.22	C
ANISOU 6166 CA GLY C 39	3124 2212 2346 356 -918 258	C
ATOM 6167 C GLY C 39	-15.612 -0.837 -0.318 1.00 20.88	C
ANISOU 6167 C GLY C 39	3343 2205 2383 235 -927 318	C
ATOM 6168 O GLY C 39	-16.337 -1.048 0.661 1.00 21.00	O
ANISOU 6168 O GLY C 39	3440 2163 2377 139 -900 452	O
ATOM 6169 H GLY C 39	-17.822 -1.666 -1.064 1.00 24.94	H
ATOM 6170 HA2 GLY C 39	-15.555 -1.452 -2.257 1.00 24.26	H
ATOM 6171 HA3 GLY C 39	-16.102 0.015 -2.101 1.00 24.26	H
ATOM 6172 N LYS C 40	-14.311 -0.572 -0.244 1.00 20.42	N
ANISOU 6172 N LYS C 40	3292 2167 2301 245 -975 236	N
ATOM 6173 CA LYS C 40	-13.592 -0.345 0.997 1.00 20.91	C
ANISOU 6173 CA LYS C 40	3486 2160 2297 129 -1017 270	C
ATOM 6174 C LYS C 40	-13.350 1.145 1.165 1.00 20.86	C
ANISOU 6174 C LYS C 40	3570 2177 2179 74 -845 280	C
ATOM 6175 O LYS C 40	-13.181 1.885 0.191 1.00 20.43	O
ANISOU 6175 O LYS C 40	3421 2209 2134 126 -740 253	O
ATOM 6176 CB LYS C 40	-12.248 -1.069 0.996 1.00 22.66	C
ANISOU 6176 CB LYS C 40	3631 2392 2588 162 -1234 197	C
ATOM 6177 CG LYS C 40	-12.321 -2.577 1.164 1.00 24.60	C
ANISOU 6177 CG LYS C 40	3882 2531 2934 212 -1461 186	C
ATOM 6178 CD LYS C 40	-12.334 -2.968 2.625 1.00 24.77	C
ANISOU 6178 CD LYS C 40	4067 2429 2913 75 -1559 296	C
ATOM 6179 CE LYS C 40	-12.356 -4.478 2.794 1.00 24.99	C
ANISOU 6179 CE LYS C 40	4121 2313 3061 111 -1812 316	C
ATOM 6180 NZ LYS C 40	-11.024 -5.135 2.607 1.00 25.24	N
ANISOU 6180 NZ LYS C 40	4087 2347 3157 251 -2023 215	N
ATOM 6181 H LYS C 40	-13.804 -0.518 -0.936 1.00 24.51	H
ATOM 6182 HA LYS C 40	-14.119 -0.664 1.746 1.00 25.09	H

ATOM	6183	HB2 LYS C	40	-11.803	-0.892	0.152	1.00	27.19	H
ATOM	6184	HB3 LYS C	40	-11.711	-0.721	1.725	1.00	27.19	H
ATOM	6185	HG2 LYS C	40	-13.137	-2.905	0.753	1.00	29.52	H
ATOM	6186	HG3 LYS C	40	-11.547	-2.984	0.746	1.00	29.52	H
ATOM	6187	HD2 LYS C	40	-11.535	-2.625	3.056	1.00	29.72	H
ATOM	6188	HD3 LYS C	40	-13.127	-2.603	3.048	1.00	29.72	H
ATOM	6189	HE2 LYS C	40	-12.666	-4.687	3.689	1.00	29.99	H
ATOM	6190	HE3 LYS C	40	-12.966	-4.855	2.140	1.00	29.99	H
ATOM	6191	HZ1 LYS C	40	-11.100	-6.014	2.717	1.00	30.29	H
ATOM	6192	HZ2 LYS C	40	-10.717	-4.971	1.787	1.00	30.29	H
ATOM	6193	HZ3 LYS C	40	-10.443	-4.818	3.202	1.00	30.29	H
ATOM	6194	N GLY C	41	-13.316	1.578	2.410	1.00	21.52	N
ANISOU	6194	N GLY C	41	3867	2165	2143	-29	-837 323	N
ATOM	6195	CA GLY C	41	-12.994	2.954	2.662	1.00	22.33	C
ANISOU	6195	CA GLY C	41	4128	2219	2139	-94	-746 309	C
ATOM	6196	C GLY C	41	-12.900	3.246	4.132	1.00	24.20	C
ANISOU	6196	C GLY C	41	4658	2331	2208	-183	-799 321	C
ATOM	6197	O GLY C	41	-12.480	2.410	4.937	1.00	23.98	O
ANISOU	6197	O GLY C	41	4660	2282	2167	-237	-970 337	O
ATOM	6198	H GLY C	41	-13.473	1.103	3.110	1.00	25.82	H
ATOM	6199	HA2 GLY C	41	-12.143	3.169	2.249	1.00	26.80	H
ATOM	6200	HA3 GLY C	41	-13.678	3.524	2.277	1.00	26.80	H
ATOM	6201	N TRP C	42	-13.307	4.451	4.479	1.00	25.48	N
ANISOU	6201	N TRP C	42	5066	2397	2217	-170	-660 308	N
ATOM	6202	CA TRP C	42	-13.194	4.960	5.827	1.00	27.26	C
ANISOU	6202	CA TRP C	42	5650	2485	2223	-218	-712 282	C
ATOM	6203	C TRP C	42	-14.591	5.137	6.392	1.00	26.64	C
ANISOU	6203	C TRP C	42	5754	2419	1951	-33	-463 341	C
ATOM	6204	O TRP C	42	-15.515	5.534	5.677	1.00	26.03	O
ANISOU	6204	O TRP C	42	5593	2399	1899	106	-242 381	O
ATOM	6205	CB TRP C	42	-12.397	6.271	5.818	1.00	29.07	C
ANISOU	6205	CB TRP C	42	6075	2556	2413	-343	-803 205	C
ATOM	6206	CG TRP C	42	-10.992	6.010	5.371	1.00	29.79	C
ANISOU	6206	CG TRP C	42	5918	2703	2696	-535	-1045 210	C
ATOM	6207	CD1 TRP C	42	-9.923	5.716	6.167	1.00	32.48	C
ANISOU	6207	CD1 TRP C	42	6297	3016	3028	-700	-1325 200	C
ATOM	6208	CD2 TRP C	42	-10.516	5.945	4.024	1.00	29.24	C
ANISOU	6208	CD2 TRP C	42	5489	2779	2840	-547	-1018 254	C
ATOM	6209	NE1 TRP C	42	-8.807	5.491	5.400	1.00	33.00	N
ANISOU	6209	NE1 TRP C	42	6016	3215	3307	-811	-1463 249	N
ATOM	6210	CE2 TRP C	42	-9.145	5.628	4.079	1.00	31.15	C
ANISOU	6210	CE2 TRP C	42	5541	3095	3197	-708	-1264 282	C
ATOM	6211	CE3 TRP C	42	-11.113	6.129	2.777	1.00	26.65	C
ANISOU	6211	CE3 TRP C	42	4978	2552	2597	-418	-810 283	C
ATOM	6212	CZ2 TRP C	42	-8.364	5.494	2.934	1.00	31.23	C
ANISOU	6212	CZ2 TRP C	42	5176	3300	3389	-717	-1271 349	C
ATOM	6213	CZ3 TRP C	42	-10.336	5.996	1.643	1.00	27.21	C
ANISOU	6213	CZ3 TRP C	42	4717	2793	2829	-437	-834 331	C
ATOM	6214	CH2 TRP C	42	-8.979	5.682	1.727	1.00	29.24	C
ANISOU	6214	CH2 TRP C	42	4781	3144	3184	-572	-1045 367	C
ATOM	6215	H TRP C	42	-13.664	5.009	3.931	1.00	30.57	H
ATOM	6216	HA TRP C	42	-12.720	4.317	6.376	1.00	32.71	H
ATOM	6217	HB2 TRP C	42	-12.806	6.897	5.200	1.00	34.88	H

ATOM	6218	HB3 TRP C	42	-12.372	6.643	6.714	1.00	34.88	H	
ATOM	6219	HD1 TRP C	42	-9.946	5.677	7.096	1.00	38.97	H	
ATOM	6220	HE1 TRP C	42	-8.023	5.302	5.699	1.00	39.60	H	
ATOM	6221	HE3 TRP C	42	-12.018	6.334	2.710	1.00	31.98	H	
ATOM	6222	HZ2 TRP C	42	-7.459	5.289	2.989	1.00	37.47	H	
ATOM	6223	HZ3 TRP C	42	-10.724	6.120	0.807	1.00	32.66	H	
ATOM	6224	HH2 TRP C	42	-8.480	5.606	0.946	1.00	35.08	H	
ATOM	6225	N THR C	43	-14.759	4.787	7.663	1.00	28.15	N	
ANISOU	6225	N THR C	43	6161	2594	1941	-14	-491	375	N
ATOM	6226	CA THR C	43	-16.044	5.035	8.292	1.00	29.48	C	
ANISOU	6226	CA THR C	43	6497	2823	1880	196	-220	463	C
ATOM	6227	C THR C	43	-16.343	6.534	8.346	1.00	31.39	C	
ANISOU	6227	C THR C	43	7061	2929	1935	345	-71	356	C
ATOM	6228	O THR C	43	-17.516	6.912	8.446	1.00	31.90	O	
ANISOU	6228	O THR C	43	7107	3083	1930	579	209	407	O
ATOM	6229	CB THR C	43	-16.077	4.406	9.689	1.00	33.49	C	
ANISOU	6229	CB THR C	43	7140	3372	2213	200	-267	520	C
ATOM	6230	OG1 THR C	43	-15.392	3.138	9.668	1.00	31.45	O	
ANISOU	6230	OG1 THR C	43	6698	3142	2110	26	-511	592	O
ATOM	6231	CG2 THR C	43	-17.522	4.172	10.125	1.00	34.70	C	
ANISOU	6231	CG2 THR C	43	7179	3723	2284	397	39	686	C
ATOM	6232	H THR C	43	-14.166	4.417	8.165	1.00	33.78	H	
ATOM	6233	HA THR C	43	-16.738	4.613	7.761	1.00	35.37	H	
ATOM	6234	HB THR C	43	-15.651	5.000	10.327	1.00	40.19	H	
ATOM	6235	HG1 THR C	43	-14.593	3.248	9.435	1.00	37.74	H	
ATOM	6236	HG21 THR C	43	-17.541	3.774	11.010	1.00	41.64	H	
ATOM	6237	HG22 THR C	43	-18.002	5.014	10.148	1.00	41.64	H	
ATOM	6238	HG23 THR C	43	-17.963	3.574	9.501	1.00	41.64	H	
ATOM	6239	N THR C	44	-15.313	7.386	8.217	1.00	32.87	N	
ANISOU	6239	N THR C	44	7442	2908	2141	203	-269	207	N
ATOM	6240	CA THR C	44	-15.443	8.845	8.277	1.00	33.37	C	
ANISOU	6240	CA THR C	44	7884	2751	2044	306	-207	93	C
ATOM	6241	C THR C	44	-14.607	9.478	7.166	1.00	32.92	C	
ANISOU	6241	C THR C	44	7694	2575	2240	106	-346	54	C
ATOM	6242	O THR C	44	-13.375	9.388	7.182	1.00	32.92	O	
ANISOU	6242	O THR C	44	7641	2508	2361	-165	-633	21	O
ATOM	6243	CB THR C	44	-14.985	9.385	9.646	1.00	36.58	C	
ANISOU	6243	CB THR C	44	8735	2949	2215	298	-370	-40	C
ATOM	6244	OG1 THR C	44	-15.787	8.817	10.691	1.00	37.88	O	
ANISOU	6244	OG1 THR C	44	8884	3266	2241	502	-198	18	O
ATOM	6245	CG2 THR C	44	-15.085	10.919	9.708	1.00	39.18	C	
ANISOU	6245	CG2 THR C	44	9476	2979	2431	405	-358	-157	C
ATOM	6246	H THR C	44	-14.502	7.128	8.090	1.00	39.45	H	
ATOM	6247	HA THR C	44	-16.371	9.093	8.144	1.00	40.04	H	
ATOM	6248	HB THR C	44	-14.058	9.139	9.789	1.00	43.90	H	
ATOM	6249	HG1 THR C	44	-16.594	9.018	10.575	1.00	45.45	H	
ATOM	6250	HG21 THR C	44	-14.793	11.236	10.577	1.00	47.01	H	
ATOM	6251	HG22 THR C	44	-14.525	11.316	9.023	1.00	47.01	H	
ATOM	6252	HG23 THR C	44	-16.004	11.198	9.564	1.00	47.01	H	
ATOM	6253	N GLY C	45	-15.267	10.148	6.224	1.00	31.91	N	
ANISOU	6253	N GLY C	45	7499	2442	2184	245	-142	89	N
ATOM	6254	CA GLY C	45	-14.549	10.819	5.160	1.00	31.81	C	
ANISOU	6254	CA GLY C	45	7370	2332	2383	71	-241	97	C

ATOM 6255 C GLY C 45	-13.846 12.077 5.640 1.00 34.49	C
ANISOU 6255 C GLY C 45	8158 2317 2629 -70 -446 -4	C
ATOM 6256 O GLY C 45	-14.192 12.676 6.664 1.00 37.06	O
ANISOU 6256 O GLY C 45	8969 2432 2681 67 -454 -120	O
ATOM 6257 H GLY C 45	-16.122 10.225 6.183 1.00 38.30	H
ATOM 6258 HA2 GLY C 45	-13.885 10.218 4.789 1.00 38.17	H
ATOM 6259 HA3 GLY C 45	-15.170 11.064 4.456 1.00 38.17	H
ATOM 6260 N SER C 46	-12.824 12.475 4.878 1.00 34.60	N
ANISOU 6260 N SER C 46	8012 2266 2867 -351 -629 53	N
ATOM 6261 CA SER C 46	-12.050 13.677 5.152 1.00 37.79	C
ANISOU 6261 CA SER C 46	8786 2314 3260 -578 -885 8	C
ATOM 6262 C SER C 46	-11.922 14.470 3.858 1.00 37.94	C
ANISOU 6262 C SER C 46	8638 2291 3485 -659 -818 144	C
ATOM 6263 O SER C 46	-11.609 13.883 2.801 1.00 35.60	O
ANISOU 6263 O SER C 46	7842 2282 3401 -728 -742 287	O
ATOM 6264 CB SER C 46	-10.658 13.333 5.696 1.00 39.01	C
ANISOU 6264 CB SER C 46	8839 2481 3503 -936 -1254 14	C
ATOM 6265 OG SER C 46	-9.863 14.495 5.836 1.00 42.43	O
ANISOU 6265 OG SER C 46	9414 2733 3975 -1164 -1500 37	O
ATOM 6266 H SER C 46	-12.557 12.050 4.179 1.00 41.52	H
ATOM 6267 HA SER C 46	-12.514 14.222 5.807 1.00 45.35	H
ATOM 6268 HB2 SER C 46	-10.755 12.912 6.565 1.00 46.81	H
ATOM 6269 HB3 SER C 46	-10.221 12.725 5.080 1.00 46.81	H
ATOM 6270 HG SER C 46	-10.229 15.032 6.368 1.00 50.92	H
ATOM 6271 N PRO C 47	-12.147 15.788 3.878 1.00 40.61	N
ANISOU 6271 N PRO C 47	9264 2415 3751 -611 -829 108	N
ATOM 6272 CA PRO C 47	-11.896 16.576 2.661 1.00 41.14	C
ANISOU 6272 CA PRO C 47	9163 2441 4029 -731 -800 267	C
ATOM 6273 C PRO C 47	-10.416 16.705 2.347 1.00 42.54	C
ANISOU 6273 C PRO C 47	9098 2624 4442 -1177 -1094 416	C
ATOM 6274 O PRO C 47	-10.063 17.158 1.253 1.00 42.92	O
ANISOU 6274 O PRO C 47	8916 2706 4685 -1316 -1059 615	O
ATOM 6275 CB PRO C 47	-12.540 17.934 2.980 1.00 44.43	C
ANISOU 6275 CB PRO C 47	10012 2588 4280 -548 -776 171	C
ATOM 6276 CG PRO C 47	-12.464 18.039 4.465 1.00 46.85	C
ANISOU 6276 CG PRO C 47	10715 2758 4327 -511 -956 -10	C
ATOM 6277 CD PRO C 47	-12.566 16.640 5.011 1.00 43.97	C
ANISOU 6277 CD PRO C 47	10195 2621 3891 -447 -892 -52	C
ATOM 6278 HA PRO C 47	-12.350 16.176 1.902 1.00 49.37	H
ATOM 6279 HB2 PRO C 47	-12.035 18.645 2.557 1.00 53.31	H
ATOM 6280 HB3 PRO C 47	-13.463 17.939 2.680 1.00 53.31	H
ATOM 6281 HG2 PRO C 47	-11.616 18.438 4.716 1.00 56.22	H
ATOM 6282 HG3 PRO C 47	-13.200 18.582 4.787 1.00 56.22	H
ATOM 6283 HD2 PRO C 47	-11.961 16.525 5.760 1.00 52.76	H
ATOM 6284 HD3 PRO C 47	-13.482 16.442 5.260 1.00 52.76	H
ATOM 6285 N PHE C 48	-9.544 16.291 3.265 1.00 43.60	N
ANISOU 6285 N PHE C 48	9242 2767 4556 -1394 -1372 359	N
ATOM 6286 CA PHE C 48	-8.109 16.345 3.044 1.00 45.47	C
ANISOU 6286 CA PHE C 48	9183 3072 5020 -1809 -1658 531	C
ATOM 6287 C PHE C 48	-7.537 15.040 2.516 1.00 42.92	C
ANISOU 6287 C PHE C 48	8368 3076 4865 -1918 -1634 667	C
ATOM 6288 O PHE C 48	-6.409 15.034 2.011 1.00 44.21	O
ANISOU 6288 O PHE C 48	8158 3393 5246 -2224 -1790 884	O

ATOM 6289 CB PHE C 48	-7.397	16.713	4.349	1.00	48.92		C
ANISOU 6289 CB PHE C 48	9890	3353	5345	-1980	-2014	427	C
ATOM 6290 CG PHE C 48	-7.912	17.977	4.975	1.00	52.49		C
ANISOU 6290 CG PHE C 48	10879	3466	5597	-1860	-2079	291	C
ATOM 6291 CD1 PHE C 48	-7.872	19.168	4.273	1.00	54.93		C
ANISOU 6291 CD1 PHE C 48	11264	3585	6023	-1956	-2097	390	C
ATOM 6292 CD2 PHE C 48	-8.440	17.976	6.256	1.00	53.60		C
ANISOU 6292 CD2 PHE C 48	11456	3484	5427	-1636	-2118	85	C
ATOM 6293 CE1 PHE C 48	-8.344	20.332	4.831	1.00	58.69		C
ANISOU 6293 CE1 PHE C 48	12256	3727	6316	-1832	-2179	261	C
ATOM 6294 CE2 PHE C 48	-8.913	19.143	6.823	1.00	57.36		C
ANISOU 6294 CE2 PHE C 48	12444	3650	5698	-1493	-2181	-31	C
ATOM 6295 CZ PHE C 48	-8.865	20.324	6.108	1.00	59.93		C
ANISOU 6295 CZ PHE C 48	12857	3765	6147	-1590	-2223	43	C
ATOM 6296 H PHE C 48	-9.766	15.971	4.032	1.00	52.32		H
ATOM 6297 HA PHE C 48	-7.918	17.039	2.393	1.00	54.56		H
ATOM 6298 HB2 PHE C 48	-7.520	15.994	4.988	1.00	58.70		H
ATOM 6299 HB3 PHE C 48	-6.452	16.835	4.167	1.00	58.70		H
ATOM 6300 HD1 PHE C 48	-7.522	19.181	3.412	1.00	65.92		H
ATOM 6301 HD2 PHE C 48	-8.473	17.182	6.739	1.00	64.32		H
ATOM 6302 HE1 PHE C 48	-8.309	21.127	4.348	1.00	70.42		H
ATOM 6303 HE2 PHE C 48	-9.265	19.133	7.684	1.00	68.83		H
ATOM 6304 HZ PHE C 48	-9.184	21.111	6.487	1.00	71.91		H
ATOM 6305 N ARG C 49	-8.286	13.948	2.601	1.00	40.27		N
ANISOU 6305 N ARG C 49	7931	2945	4424	-1617	-1418	557	N
ATOM 6306 CA ARG C 49	-7.725	12.649	2.286	1.00	39.82		C
ANISOU 6306 CA ARG C 49	7352	3299	4478	-1600	-1401	618	C
ATOM 6307 C ARG C 49	-7.376	12.549	0.810	1.00	41.68		C
ANISOU 6307 C ARG C 49	7092	3842	4901	-1595	-1234	826	C
ATOM 6308 O ARG C 49	-8.093	13.059	-0.053	1.00	39.47		O
ANISOU 6308 O ARG C 49	6835	3550	4613	-1445	-1003	877	O
ATOM 6309 CB ARG C 49	-8.709	11.551	2.662	1.00	35.74		C
ANISOU 6309 CB ARG C 49	6845	2922	3814	-1265	-1210	462	C
ATOM 6310 CG ARG C 49	-8.227	10.176	2.314	1.00	33.60		C
ANISOU 6310 CG ARG C 49	6105	3010	3652	-1205	-1209	501	C
ATOM 6311 CD ARG C 49	-9.086	9.124	2.979	1.00	31.46		C
ANISOU 6311 CD ARG C 49	5921	2789	3245	-968	-1121	368	C
ATOM 6312 NE ARG C 49	-8.765	9.017	4.398	1.00	34.60		N
ANISOU 6312 NE ARG C 49	6613	3028	3507	-1078	-1351	282	N
ATOM 6313 CZ ARG C 49	-9.621	9.201	5.402	1.00	35.11		C
ANISOU 6313 CZ ARG C 49	7094	2912	3334	-953	-1299	169	C
ATOM 6314 NH1 ARG C 49	-10.901	9.501	5.183	1.00	34.49		N
ANISOU 6314 NH1 ARG C 49	7165	2796	3145	-705	-1013	140	N
ATOM 6315 NH2 ARG C 49	-9.185	9.069	6.643	1.00	36.25		N
ANISOU 6315 NH2 ARG C 49	7495	2946	3334	-1054	-1534	100	N
ATOM 6316 H ARG C 49	-9.113	13.935	2.837	1.00	48.32		H
ATOM 6317 HA ARG C 49	-6.913	12.519	2.800	1.00	47.78		H
ATOM 6318 HB2 ARG C 49	-8.861	11.580	3.620	1.00	42.89		H
ATOM 6319 HB3 ARG C 49	-9.543	11.702	2.191	1.00	42.89		H
ATOM 6320 HG2 ARG C 49	-8.276	10.051	1.354	1.00	40.32		H
ATOM 6321 HG3 ARG C 49	-7.314	10.067	2.623	1.00	40.32		H
ATOM 6322 HD2 ARG C 49	-10.020	9.369	2.893	1.00	37.76		H
ATOM 6323 HD3 ARG C 49	-8.922	8.264	2.561	1.00	37.76		H

ATOM	6324	HE	ARG C 49	-7.955	8.817	4.603	1.00	41.52		H
ATOM	6325	HH11	ARG C 49	-11.190	9.587	4.378	1.00	41.39		H
ATOM	6326	HH12	ARG C 49	-11.435	9.614	5.847	1.00	41.39		H
ATOM	6327	HH21	ARG C 49	-8.361	8.873	6.791	1.00	43.50		H
ATOM	6328	HH22	ARG C 49	-9.725	9.182	7.303	1.00	43.50		H
ATOM	6329	N	THR C 50	-6.254	11.895	0.527	1.00	45.99		N
ANISOU	6329	N	THR C 50	7191	4688	5595	-1730	-1349	957	N
ATOM	6330	CA	THR C 50	-5.913	11.458	-0.820	1.00	48.01		C
ANISOU	6330	CA	THR C 50	6938	5337	5967	-1618	-1158	1127	C
ATOM	6331	C	THR C 50	-6.151	9.955	-0.876	1.00	43.45		C
ANISOU	6331	C	THR C 50	6134	5032	5341	-1315	-1066	989	C
ATOM	6332	O	THR C 50	-5.393	9.177	-0.284	1.00	45.46		O
ANISOU	6332	O	THR C 50	6235	5400	5636	-1367	-1250	971	O
ATOM	6333	CB	THR C 50	-4.465	11.797	-1.168	1.00	54.36		C
ANISOU	6333	CB	THR C 50	7368	6326	6960	-1936	-1328	1406	C
ATOM	6334	OG1	THR C 50	-4.271	13.215	-1.086	1.00	58.27		O
ANISOU	6334	OG1	THR C 50	8115	6503	7523	-2270	-1464	1552	O
ATOM	6335	CG2	THR C 50	-4.117	11.314	-2.580	1.00	54.80		C
ANISOU	6335	CG2	THR C 50	6897	6847	7077	-1746	-1086	1588	C
ATOM	6336	H	THR C 50	-5.661	11.688	1.115	1.00	55.19		H
ATOM	6337	HA	THR C 50	-6.497	11.890	-1.463	1.00	57.61		H
ATOM	6338	HB	THR C 50	-3.872	11.356	-0.540	1.00	65.23		H
ATOM	6339	HG1	THR C 50	-4.783	13.606	-1.625	1.00	69.93		H
ATOM	6340	HG21	THR C 50	-3.196	11.535	-2.789	1.00	65.76		H
ATOM	6341	HG22	THR C 50	-4.231	10.352	-2.639	1.00	65.76		H
ATOM	6342	HG23	THR C 50	-4.698	11.740	-3.229	1.00	65.76		H
ATOM	6343	N	ILE C 51	-7.215	9.550	-1.561	1.00	35.58		N
ANISOU	6343	N	ILE C 51	5138	4115	4266	-1007	-815	900	N
ATOM	6344	CA	ILE C 51	-7.525	8.135	-1.693	1.00	30.01		C
ANISOU	6344	CA	ILE C 51	4261	3610	3529	-737	-764	771	C
ATOM	6345	C	ILE C 51	-6.579	7.530	-2.717	1.00	30.08		C
ANISOU	6345	C	ILE C 51	3807	3998	3623	-638	-733	886	C
ATOM	6346	O	ILE C 51	-6.345	8.107	-3.790	1.00	30.61		O
ANISOU	6346	O	ILE C 51	3681	4236	3714	-625	-591	1045	O
ATOM	6347	CB	ILE C 51	-8.995	7.925	-2.097	1.00	26.83		C
ANISOU	6347	CB	ILE C 51	4005	3161	3027	-476	-553	658	C
ATOM	6348	CG1	ILE C 51	-9.932	8.357	-0.963	1.00	26.13		C
ANISOU	6348	CG1	ILE C 51	4340	2763	2825	-502	-556	555	C
ATOM	6349	CG2	ILE C 51	-9.264	6.462	-2.429	1.00	24.96		C
ANISOU	6349	CG2	ILE C 51	3580	3114	2790	-232	-544	550	C
ATOM	6350	CD1	ILE C 51	-10.312	9.815	-1.001	1.00	28.17		C
ANISOU	6350	CD1	ILE C 51	4878	2789	3037	-582	-478	611	C
ATOM	6351	H	ILE C 51	-7.771	10.074	-1.957	1.00	42.70		H
ATOM	6352	HA	ILE C 51	-7.376	7.694	-0.842	1.00	36.01		H
ATOM	6353	HB	ILE C 51	-9.185	8.463	-2.881	1.00	32.19		H
ATOM	6354	HG12	ILE C 51	-10.749	7.837	-1.018	1.00	31.36		H
ATOM	6355	HG13	ILE C 51	-9.492	8.188	-0.115	1.00	31.36		H
ATOM	6356	HG21	ILE C 51	-10.196	6.361	-2.679	1.00	29.95		H
ATOM	6357	HG22	ILE C 51	-8.692	6.196	-3.166	1.00	29.95		H
ATOM	6358	HG23	ILE C 51	-9.070	5.921	-1.648	1.00	29.95		H
ATOM	6359	HD11	ILE C 51	-10.902	10.006	-0.255	1.00	33.81		H
ATOM	6360	HD12	ILE C 51	-9.507	10.352	-0.933	1.00	33.81		H
ATOM	6361	HD13	ILE C 51	-10.765	10.001	-1.838	1.00	33.81		H

ATOM 6362 N ASN C 52	-6.020	6.376	-2.379	1.00	29.21		N
ANISOU 6362 N ASN C 52	3528	4029	3542	-540	-861	819	N
ATOM 6363 CA ASN C 52	-5.181	5.616	-3.284	1.00	30.20		C
ANISOU 6363 CA ASN C 52	3240	4526	3707	-339	-822	888	C
ATOM 6364 C ASN C 52	-5.902	4.330	-3.640	1.00	28.27		C
ANISOU 6364 C ASN C 52	3025	4324	3393	10	-776	683	C
ATOM 6365 O ASN C 52	-6.613	3.753	-2.813	1.00	26.74		O
ANISOU 6365 O ASN C 52	3081	3904	3176	20	-870	534	O
ATOM 6366 CB ASN C 52	-3.830	5.282	-2.650	1.00	32.63		C
ANISOU 6366 CB ASN C 52	3311	4971	4117	-471	-1041	991	C
ATOM 6367 CG ASN C 52	-3.068	6.513	-2.227	1.00	35.11		C
ANISOU 6367 CG ASN C 52	3598	5216	4527	-880	-1166	1207	C
ATOM 6368 OD1 ASN C 52	-2.240	7.032	-2.975	1.00	37.42		O
ANISOU 6368 OD1 ASN C 52	3548	5770	4901	-970	-1107	1456	O
ATOM 6369 ND2 ASN C 52	-3.350	6.996	-1.021	1.00	34.91		N
ANISOU 6369 ND2 ASN C 52	3946	4834	4483	-1133	-1354	1126	N
ATOM 6370 H ASN C 52	-6.117	6.006	-1.609	1.00	35.05		H
ATOM 6371 HA ASN C 52	-5.029	6.124	-4.096	1.00	36.23		H
ATOM 6372 HB2 ASN C 52	-3.975	4.734	-1.863	1.00	39.16		H
ATOM 6373 HB3 ASN C 52	-3.288	4.801	-3.295	1.00	39.16		H
ATOM 6374 HD21 ASN C 52	-2.943	7.697	-0.733	1.00	41.89		H
ATOM 6375 HD22 ASN C 52	-3.939	6.608	-0.530	1.00	41.89		H
ATOM 6376 N TYR C 53	-5.706	3.868	-4.869	1.00	28.82		N
ANISOU 6376 N TYR C 53	2849	4682	3418	296	-648	689	N
ATOM 6377 CA TYR C 53	-6.317	2.605	-5.231	1.00	27.66		C
ANISOU 6377 CA TYR C 53	2766	4534	3209	619	-672	479	C
ATOM 6378 C TYR C 53	-5.663	2.061	-6.489	1.00	29.47		C
ANISOU 6378 C TYR C 53	2708	5126	3362	967	-578	486	C
ATOM 6379 O TYR C 53	-4.972	2.777	-7.216	1.00	31.29		O
ANISOU 6379 O TYR C 53	2682	5640	3567	965	-426	682	O
ATOM 6380 CB TYR C 53	-7.834	2.757	-5.434	1.00	25.46		C
ANISOU 6380 CB TYR C 53	2758	4048	2869	642	-586	369	C
ATOM 6381 CG TYR C 53	-8.205	3.401	-6.755	1.00	25.67		C
ANISOU 6381 CG TYR C 53	2702	4249	2802	771	-377	431	C
ATOM 6382 CD1 TYR C 53	-8.320	4.778	-6.875	1.00	25.89		C
ANISOU 6382 CD1 TYR C 53	2763	4242	2831	568	-239	602	C
ATOM 6383 CD2 TYR C 53	-8.433	2.624	-7.881	1.00	26.05		C
ANISOU 6383 CD2 TYR C 53	2676	4476	2745	1107	-344	316	C
ATOM 6384 CE1 TYR C 53	-8.654	5.367	-8.089	1.00	26.33		C
ANISOU 6384 CE1 TYR C 53	2750	4461	2794	692	-52	687	C
ATOM 6385 CE2 TYR C 53	-8.757	3.199	-9.100	1.00	26.55		C
ANISOU 6385 CE2 TYR C 53	2677	4724	2688	1243	-163	380	C
ATOM 6386 CZ TYR C 53	-8.869	4.566	-9.200	1.00	26.61		C
ANISOU 6386 CZ TYR C 53	2688	4716	2706	1032	-8	580	C
ATOM 6387 OH TYR C 53	-9.200	5.122	-10.416	1.00	27.32		O
ANISOU 6387 OH TYR C 53	2723	4991	2667	1176	167	668	O
ATOM 6388 H TYR C 53	-5.244	4.250	-5.485	1.00	34.58		H
ATOM 6389 HA TYR C 53	-6.172	1.966	-4.516	1.00	33.19		H
ATOM 6390 HB2 TYR C 53	-8.244	1.879	-5.405	1.00	30.55		H
ATOM 6391 HB3 TYR C 53	-8.191	3.311	-4.722	1.00	30.55		H
ATOM 6392 HD1 TYR C 53	-8.171	5.315	-6.131	1.00	31.06		H
ATOM 6393 HD2 TYR C 53	-8.354	1.700	-7.820	1.00	31.26		H
ATOM 6394 HE1 TYR C 53	-8.726	6.292	-8.156	1.00	31.60		H

ATOM 6395	HE2 TYR C 53	-8.907	2.663	-9.845	1.00	31.86		H
ATOM 6396	HH TYR C 53	-9.239	5.959	-10.349	1.00	32.78		H
ATOM 6397	N ASN C 54	-5.898	0.775	-6.727	1.00	29.37		N
ANISOU 6397	N ASN C 54	2760	5096	3302	1277	-678	280	N
ATOM 6398	CA ASN C 54	-5.491	0.124	-7.966	1.00	33.19		C
ANISOU 6398	CA ASN C 54	3077	5881	3652	1703	-602	212	C
ATOM 6399	C ASN C 54	-6.592	-0.858	-8.328	1.00	32.70		C
ANISOU 6399	C ASN C 54	3298	5605	3521	1922	-717	-56	C
ATOM 6400	O ASN C 54	-6.813	-1.838	-7.611	1.00	31.63		O
ANISOU 6400	O ASN C 54	3336	5218	3465	1934	-937	-197	O
ATOM 6401	CB ASN C 54	-4.140	-0.580	-7.821	1.00	35.34		C
ANISOU 6401	CB ASN C 54	3088	6392	3947	1915	-678	252	C
ATOM 6402	CG ASN C 54	-3.675	-1.227	-9.123	1.00	39.11		C
ANISOU 6402	CG ASN C 54	3532	7081	4249	2271	-516	156	C
ATOM 6403	OD1 ASN C 54	-4.490	-1.672	-9.938	1.00	38.92		O
ANISOU 6403	OD1 ASN C 54	3745	6962	4080	2448	-494	-41	O
ATOM 6404	ND2 ASN C 54	-2.361	-1.279	-9.322	1.00	41.53		N
ANISOU 6404	ND2 ASN C 54	3551	7687	4541	2369	-423	305	N
ATOM 6405	H ASN C 54	-6.300	0.250	-6.177	1.00	35.24		H
ATOM 6406	HA ASN C 54	-5.421	0.785	-8.672	1.00	39.83		H
ATOM 6407	HB2 ASN C 54	-3.472	0.070	-7.553	1.00	42.40		H
ATOM 6408	HB3 ASN C 54	-4.216	-1.276	-7.150	1.00	42.40		H
ATOM 6409	HD21 ASN C 54	-1.823	-0.958	-8.733	1.00	49.83		H
ATOM 6410	HD22 ASN C 54	-2.049	-1.635	-10.041	1.00	49.83		H
ATOM 6411	N ALA C 55	-7.300	-0.569	-9.415	1.00	33.71		N
ANISOU 6411	N ALA C 55	3478	5819	3512	2061	-591	-100	N
ATOM 6412	CA ALA C 55	-8.344	-1.453	-9.927	1.00	34.93		C
ANISOU 6412	CA ALA C 55	3913	5759	3601	2182	-705	-341	C
ATOM 6413	C ALA C 55	-7.679	-2.454	-10.864	1.00	35.91		C
ANISOU 6413	C ALA C 55	4071	6014	3560	2499	-707	-505	C
ATOM 6414	O ALA C 55	-7.583	-2.239	-12.072	1.00	37.87		O
ANISOU 6414	O ALA C 55	4291	6508	3591	2695	-562	-512	O
ATOM 6415	CB ALA C 55	-9.434	-0.657	-10.637	1.00	34.28		C
ANISOU 6415	CB ALA C 55	3889	5702	3434	2153	-596	-305	C
ATOM 6416	H ALA C 55	-7.193	0.145	-9.883	1.00	40.46		H
ATOM 6417	HA ALA C 55	-8.747	-1.940	-9.191	1.00	41.92		H
ATOM 6418	HB1 ALA C 55	-10.111	-1.270	-10.964	1.00	41.14		H
ATOM 6419	HB2 ALA C 55	-9.830	-0.033	-10.008	1.00	41.14		H
ATOM 6420	HB3 ALA C 55	-9.039	-0.173	-11.379	1.00	41.14		H
ATOM 6421	N GLY C 56	-7.209	-3.559	-10.290	1.00	34.40		N
ANISOU 6421	N GLY C 56	3965	5665	3441	2566	-883	-626	N
ATOM 6422	CA GLY C 56	-6.558	-4.585	-11.086	1.00	37.71		C
ANISOU 6422	CA GLY C 56	4459	6190	3679	2906	-918	-795	C
ATOM 6423	C GLY C 56	-7.495	-5.234	-12.080	1.00	37.81		C
ANISOU 6423	C GLY C 56	4763	6094	3511	3084	-1050	-1039	C
ATOM 6424	O GLY C 56	-7.054	-5.768	-13.101	1.00	41.28		O
ANISOU 6424	O GLY C 56	5274	6718	3691	3411	-1049	-1161	O
ATOM 6425	H GLY C 56	-7.256	-3.735	-9.450	1.00	41.28		H
ATOM 6426	HA2 GLY C 56	-5.817	-4.192	-11.574	1.00	45.25		H
ATOM 6427	HA3 GLY C 56	-6.207	-5.273	-10.499	1.00	45.25		H
ATOM 6428	N VAL C 57	-8.791	-5.216	-11.791	1.00	35.57		N
ANISOU 6428	N VAL C 57	4646	5521	3347	2879	-1194	-1099	N
ATOM 6429	CA VAL C 57	-9.807	-5.720	-12.708	1.00	36.51		C

ANISOU 6429	CA	VAL C 57	5016	5526	3331	3002	-1364	-1309	C
ATOM 6430	C	VAL C 57	-10.934	-4.701	-12.760	1.00	34.16		C
ANISOU 6430	C	VAL C 57	4665	5209	3107	2777	-1274	-1182	C
ATOM 6431	O	VAL C 57	-11.510	-4.353	-11.721	1.00	31.41		O
ANISOU 6431	O	VAL C 57	4278	4661	2993	2472	-1299	-1048	O
ATOM 6432	CB	VAL C 57	-10.344	-7.099	-12.288	1.00	37.72		C
ANISOU 6432	CB	VAL C 57	5466	5264	3601	2991	-1735	-1532	C
ATOM 6433	CG1	VAL C 57	-11.532	-7.517	-13.173	1.00	38.92		C
ANISOU 6433	CG1	VAL C 57	5870	5247	3673	3065	-1966	-1735	C
ATOM 6434	CG2	VAL C 57	-9.207	-8.135	-12.352	1.00	40.79		C
ANISOU 6434	CG2	VAL C 57	5934	5691	3872	3271	-1838	-1663	C
ATOM 6435	H	VAL C 57	-9.114	-4.910	-11.055	1.00	42.68		H
ATOM 6436	HA	VAL C 57	-9.426	-5.799	-13.596	1.00	43.81		H
ATOM 6437	HB	VAL C 57	-10.656	-7.051	-11.371	1.00	45.26		H
ATOM 6438	HG11	VAL C 57	-11.848	-8.388	-12.885	1.00	46.71		H
ATOM 6439	HG12	VAL C 57	-12.240	-6.861	-13.081	1.00	46.71		H
ATOM 6440	HG13	VAL C 57	-11.238	-7.560	-14.096	1.00	46.71		H
ATOM 6441	HG21	VAL C 57	-9.553	-9.001	-12.087	1.00	48.95		H
ATOM 6442	HG22	VAL C 57	-8.870	-8.177	-13.261	1.00	48.95		H
ATOM 6443	HG23	VAL C 57	-8.498	-7.863	-11.749	1.00	48.95		H
ATOM 6444	N	TRP C 58	-11.239	-4.218	-13.967	1.00	34.96		N
ANISOU 6444	N	TRP C 58	4769	5538	2977	2943	-1173	-1203	N
ATOM 6445	CA	TRP C 58	-12.354	-3.298	-14.202	1.00	33.50		C
ANISOU 6445	CA	TRP C 58	4545	5353	2829	2784	-1095	-1091	C
ATOM 6446	C	TRP C 58	-13.054	-3.727	-15.488	1.00	35.40		C
ANISOU 6446	C	TRP C 58	4976	5616	2859	3026	-1230	-1302	C
ATOM 6447	O	TRP C 58	-12.665	-3.318	-16.584	1.00	36.98		O
ANISOU 6447	O	TRP C 58	5138	6146	2768	3256	-1091	-1275	O
ATOM 6448	CB	TRP C 58	-11.888	-1.856	-14.294	1.00	34.23		C
ANISOU 6448	CB	TRP C 58	4386	5749	2870	2712	-763	-811	C
ATOM 6449	CG	TRP C 58	-13.040	-0.935	-14.495	1.00	33.62		C
ANISOU 6449	CG	TRP C 58	4295	5657	2823	2572	-696	-690	C
ATOM 6450	CD1	TRP C 58	-13.247	-0.090	-15.546	1.00	34.90		C
ANISOU 6450	CD1	TRP C 58	4403	6075	2783	2686	-523	-590	C
ATOM 6451	CD2	TRP C 58	-14.174	-0.795	-13.635	1.00	32.36		C
ANISOU 6451	CD2	TRP C 58	4179	5230	2886	2299	-806	-628	C
ATOM 6452	NE1	TRP C 58	-14.435	0.580	-15.384	1.00	33.85		N
ANISOU 6452	NE1	TRP C 58	4276	5831	2755	2512	-518	-485	N
ATOM 6453	CE2	TRP C 58	-15.021	0.169	-14.214	1.00	32.16		C
ANISOU 6453	CE2	TRP C 58	4115	5314	2792	2272	-684	-498	C
ATOM 6454	CE3	TRP C 58	-14.550	-1.383	-12.423	1.00	31.47		C
ANISOU 6454	CE3	TRP C 58	4133	4824	3003	2077	-987	-637	C
ATOM 6455	CZ2	TRP C 58	-16.224	0.557	-13.625	1.00	31.21		C
ANISOU 6455	CZ2	TRP C 58	4004	5034	2819	2052	-729	-383	C
ATOM 6456	CZ3	TRP C 58	-15.740	-1.000	-11.841	1.00	30.39		C
ANISOU 6456	CZ3	TRP C 58	4002	4548	2995	1851	-1026	-511	C
ATOM 6457	CH2	TRP C 58	-16.565	-0.038	-12.441	1.00	30.46		C
ANISOU 6457	CH2	TRP C 58	3956	4688	2928	1853	-892	-388	C
ATOM 6458	H	TRP C 58	-10.804	-4.415	-14.682	1.00	41.95		H
ATOM 6459	HA	TRP C 58	-12.988	-3.368	-13.472	1.00	40.20		H
ATOM 6460	HB2	TRP C 58	-11.440	-1.610	-13.469	1.00	41.07		H
ATOM 6461	HB3	TRP C 58	-11.285	-1.760	-15.047	1.00	41.07		H
ATOM 6462	HD1	TRP C 58	-12.666	0.020	-16.264	1.00	41.88		H

ATOM 6463	HE1 TRP C 58	-14.755	1.168	-15.924	1.00	40.62	H
ATOM 6464	HE3 TRP C 58	-14.007	-2.020	-12.017	1.00	37.77	H
ATOM 6465	HZ2 TRP C 58	-16.774	1.193	-14.022	1.00	37.45	H
ATOM 6466	HZ3 TRP C 58	-15.998	-1.383	-11.034	1.00	36.46	H
ATOM 6467	HH2 TRP C 58	-17.361	0.202	-12.024	1.00	36.55	H
ATOM 6468	N ALA C 59	-14.102	-4.531	-15.346	1.00	35.52	N
ANISOU 6468	N ALA C 59	5174	5264	3059	2936	-1520 -1446	N
ATOM 6469	CA ALA C 59	-14.825	-5.092	-16.484	1.00	38.11	C
ANISOU 6469	CA ALA C 59	5682	5488	3309	3156	-1714 -1641	C
ATOM 6470	C ALA C 59	-16.318	-4.907	-16.264	1.00	37.76	C
ANISOU 6470	C ALA C 59	5627	5242	3477	2791	-1858 -1506	C
ATOM 6471	O ALA C 59	-17.051	-5.871	-16.009	1.00	38.02	O
ANISOU 6471	O ALA C 59	5812	4930	3702	2636	-2177 -1574	O
ATOM 6472	CB ALA C 59	-14.472	-6.569	-16.682	1.00	41.36	C
ANISOU 6472	CB ALA C 59	6317	5642	3755	3340	-2016 -1843	C
ATOM 6473	H ALA C 59	-14.421	-4.771	-14.584	1.00	42.63	H
ATOM 6474	HA ALA C 59	-14.575	-4.611	-17.289	1.00	45.73	H
ATOM 6475	HB1 ALA C 59	-14.967	-6.912	-17.443	1.00	49.63	H
ATOM 6476	HB2 ALA C 59	-13.519	-6.646	-16.844	1.00	49.63	H
ATOM 6477	HB3 ALA C 59	-14.713	-7.061	-15.882	1.00	49.63	H
ATOM 6478	N PRO C 60	-16.800	-3.667	-16.330	1.00	37.86	N
ANISOU 6478	N PRO C 60	5456	5476	3454	2640	-1631 -1285	N
ATOM 6479	CA PRO C 60	-18.244	-3.434	-16.293	1.00	39.71	C
ANISOU 6479	CA PRO C 60	5657	5606	3826	2361	-1752 -1156	C
ATOM 6480	C PRO C 60	-18.883	-3.689	-17.646	1.00	45.38	C
ANISOU 6480	C PRO C 60	6488	6353	4401	2526	-1906 -1285	C
ATOM 6481	O PRO C 60	-18.297	-3.431	-18.699	1.00	47.90	O
ANISOU 6481	O PRO C 60	6838	6894	4466	2863	-1775 -1383	O
ATOM 6482	CB PRO C 60	-18.349	-1.953	-15.909	1.00	36.49	C
ANISOU 6482	CB PRO C 60	5031	5431	3402	2239	-1430 -881	C
ATOM 6483	CG PRO C 60	-17.105	-1.347	-16.496	1.00	35.80	C
ANISOU 6483	CG PRO C 60	4890	5636	3075	2519	-1156 -894	C
ATOM 6484	CD PRO C 60	-16.036	-2.403	-16.344	1.00	35.85	C
ANISOU 6484	CD PRO C 60	5004	5566	3051	2701	-1261 -1104	C
ATOM 6485	HA PRO C 60	-18.667	-3.984	-15.616	1.00	47.66	H
ATOM 6486	HB2 PRO C 60	-19.145	-1.564	-16.304	1.00	43.79	H
ATOM 6487	HB3 PRO C 60	-18.358	-1.861	-14.944	1.00	43.79	H
ATOM 6488	HG2 PRO C 60	-17.253	-1.141	-17.432	1.00	42.96	H
ATOM 6489	HG3 PRO C 60	-16.868	-0.546	-16.002	1.00	42.96	H
ATOM 6490	HD2 PRO C 60	-15.430	-2.383	-17.101	1.00	43.02	H
ATOM 6491	HD3 PRO C 60	-15.562	-2.286	-15.505	1.00	43.02	H
ATOM 6492	N ASN C 61	-20.112	-4.199	-17.602	1.00	48.64	N
ANISOU 6492	N ASN C 61	6943	6557	4979	2281	-2191 -1255	N
ATOM 6493	CA ASN C 61	-20.917	-4.436	-18.803	1.00	53.07	C
ANISOU 6493	CA ASN C 61	7604	7121	5437	2359	-2395 -1344	C
ATOM 6494	C ASN C 61	-22.249	-3.722	-18.588	1.00	51.90	C
ANISOU 6494	C ASN C 61	7250	7061	5408	2048	-2403 -1077	C
ATOM 6495	O ASN C 61	-23.191	-4.304	-18.041	1.00	54.41	O
ANISOU 6495	O ASN C 61	7529	7191	5954	1747	-2657 -981	O
ATOM 6496	CB ASN C 61	-21.101	-5.932	-19.062	1.00	57.80	C
ANISOU 6496	CB ASN C 61	8470	7364	6127	2384	-2809 -1566	C
ATOM 6497	H ASN C 61	-20.511	-4.421	-16.874	1.00	58.36	H
ATOM 6498	HA ASN C 61	-20.477	-4.042	-19.572	1.00	63.68	H

ATOM 6499 N GLY C 62	-22.317 -2.460 -19.013 1.00 47.32	N
ANISOU 6499 N GLY C 62	6522 6778 4678 2140 -2120 -930	N
ATOM 6500 CA GLY C 62	-23.486 -1.628 -18.788 1.00 42.85	C
ANISOU 6500 CA GLY C 62	5742 6328 4213 1929 -2077 -651	C
ATOM 6501 C GLY C 62	-23.190 -0.477 -17.846 1.00 37.68	C
ANISOU 6501 C GLY C 62	4912 5795 3611 1884 -1720 -425	C
ATOM 6502 O GLY C 62	-22.058 0.018 -17.804 1.00 33.83	O
ANISOU 6502 O GLY C 62	4454 5404 2996 2051 -1456 -465	O
ATOM 6503 H GLY C 62	-21.687 -2.062 -19.441 1.00 56.78	H
ATOM 6504 HA2 GLY C 62	-23.793 -1.264 -19.633 1.00 51.42	H
ATOM 6505 HA3 GLY C 62	-24.198 -2.165 -18.406 1.00 51.42	H
ATOM 6506 N TRP C 63	-24.183 -0.035 -17.079 1.00 38.02	N
ANISOU 6506 N TRP C 63	4766 5843 3836 1678 -1707 -172	N
ATOM 6507 CA TRP C 63	-23.963 1.078 -16.159 1.00 37.36	C
ANISOU 6507 CA TRP C 63	4564 5837 3794 1674 -1366 29	C
ATOM 6508 C TRP C 63	-23.263 0.534 -14.921 1.00 34.14	C
ANISOU 6508 C TRP C 63	4197 5260 3516 1568 -1371 -10	C
ATOM 6509 O TRP C 63	-23.893 -0.014 -14.014 1.00 34.79	O
ANISOU 6509 O TRP C 63	4205 5220 3795 1372 -1530 89	O
ATOM 6510 CB TRP C 63	-25.267 1.782 -15.806 1.00 41.11	C
ANISOU 6510 CB TRP C 63	4833 6397 4389 1580 -1308 307	C
ATOM 6511 CG TRP C 63	-25.026 3.199 -15.359 1.00 41.90	C
ANISOU 6511 CG TRP C 63	4893 6592 4436 1678 -894 476	C
ATOM 6512 CD1 TRP C 63	-25.284 4.343 -16.064 1.00 43.57	C
ANISOU 6512 CD1 TRP C 63	5084 6945 4526 1811 -679 583	C
ATOM 6513 CD2 TRP C 63	-24.447 3.618 -14.116 1.00 40.75	C
ANISOU 6513 CD2 TRP C 63	4766 6367 4351 1643 -667 557	C
ATOM 6514 NE1 TRP C 63	-24.913 5.447 -15.329 1.00 42.19	N
ANISOU 6514 NE1 TRP C 63	4931 6753 4347 1849 -344 723	N
ATOM 6515 CE2 TRP C 63	-24.395 5.027 -14.131 1.00 40.48	C
ANISOU 6515 CE2 TRP C 63	4744 6400 4236 1748 -333 705	C
ATOM 6516 CE3 TRP C 63	-23.974 2.938 -12.989 1.00 40.10	C
ANISOU 6516 CE3 TRP C 63	4720 6127 4387 1508 -721 513	C
ATOM 6517 CZ2 TRP C 63	-23.889 5.765 -13.061 1.00 38.70	C
ANISOU 6517 CZ2 TRP C 63	4588 6078 4040 1738 -82 804	C
ATOM 6518 CZ3 TRP C 63	-23.474 3.674 -11.927 1.00 38.27	C
ANISOU 6518 CZ3 TRP C 63	4546 5808 4188 1454 -433 595	C
ATOM 6519 CH2 TRP C 63	-23.434 5.072 -11.973 1.00 37.76	C
ANISOU 6519 CH2 TRP C 63	4514 5797 4035 1565 -130 725	C
ATOM 6520 H TRP C 63	-24.981 -0.355 -17.071 1.00 45.62	H
ATOM 6521 HA TRP C 63	-23.375 1.726 -16.579 1.00 44.83	H
ATOM 6522 HB2 TRP C 63	-25.841 1.804 -16.588 1.00 49.33	H
ATOM 6523 HB3 TRP C 63	-25.703 1.305 -15.083 1.00 49.33	H
ATOM 6524 HD1 TRP C 63	-25.659 4.371 -16.914 1.00 52.28	H
ATOM 6525 HE1 TRP C 63	-24.990 6.265 -15.582 1.00 50.63	H
ATOM 6526 HE3 TRP C 63	-23.996 2.009 -12.952 1.00 48.11	H
ATOM 6527 HZ2 TRP C 63	-23.864 6.695 -13.086 1.00 46.44	H
ATOM 6528 HZ3 TRP C 63	-23.155 3.231 -11.174 1.00 45.93	H
ATOM 6529 HH2 TRP C 63	-23.093 5.540 -11.246 1.00 45.31	H
ATOM 6530 N GLY C 64	-21.945 0.660 -14.907 1.00 30.12	N
ANISOU 6530 N GLY C 64	3788 4763 2892 1698 -1211 -133	N
ATOM 6531 CA GLY C 64	-21.149 0.329 -13.749 1.00 28.11	C
ANISOU 6531 CA GLY C 64	3567 4373 2739 1619 -1184 -153	C

ATOM 6532 C GLY C 64	-20.048	1.355	-13.658	1.00	26.03		C
ANISOU 6532 C GLY C 64	3293	4245	2353	1741	-864	-96	C
ATOM 6533 O GLY C 64	-19.491	1.747	-14.685	1.00	26.56		O
ANISOU 6533 O GLY C 64	3372	4484	2234	1922	-748	-146	O
ATOM 6534 H GLY C 64	-21.483	0.943	-15.575	1.00	36.14		H
ATOM 6535 HA2 GLY C 64	-21.689	0.361	-12.944	1.00	33.73		H
ATOM 6536 HA3 GLY C 64	-20.761	-0.555	-13.845	1.00	33.73		H
ATOM 6537 N ALA C 65	-19.734	1.811	-12.454	1.00	23.88		N
ANISOU 6537 N ALA C 65	3002	3875	2195	1590	-696	20	N
ATOM 6538 CA ALA C 65	-18.841	2.938	-12.274	1.00	22.96		C
ANISOU 6538 CA ALA C 65	2879	3831	2016	1603	-399	121	C
ATOM 6539 C ALA C 65	-17.832	2.648	-11.176	1.00	22.50		C
ANISOU 6539 C ALA C 65	2857	3640	2051	1472	-387	84	C
ATOM 6540 O ALA C 65	-18.141	1.994	-10.172	1.00	21.54		O
ANISOU 6540 O ALA C 65	2776	3343	2067	1320	-506	69	O
ATOM 6541 CB ALA C 65	-19.633	4.213	-11.935	1.00	22.39		C
ANISOU 6541 CB ALA C 65	2791	3746	1969	1535	-171	333	C
ATOM 6542 H ALA C 65	-20.030	1.479	-11.718	1.00	28.65		H
ATOM 6543 HA ALA C 65	-18.354	3.094	-13.099	1.00	27.56		H
ATOM 6544 HB1 ALA C 65	-19.012	4.949	-11.820	1.00	26.87		H
ATOM 6545 HB2 ALA C 65	-20.246	4.406	-12.662	1.00	26.87		H
ATOM 6546 HB3 ALA C 65	-20.129	4.067	-11.114	1.00	26.87		H
ATOM 6547 N LEU C 66	-16.623	3.138	-11.394	1.00	23.35		N
ANISOU 6547 N LEU C 66	2932	3857	2082	1526	-250	102	N
ATOM 6548 CA LEU C 66	-15.528	3.074	-10.438	1.00	24.29		C
ANISOU 6548 CA LEU C 66	3053	3897	2279	1401	-232	104	C
ATOM 6549 C LEU C 66	-15.366	4.482	-9.885	1.00	22.53		C
ANISOU 6549 C LEU C 66	2860	3620	2079	1237	-14	288	C
ATOM 6550 O LEU C 66	-14.933	5.383	-10.609	1.00	24.26		O
ANISOU 6550 O LEU C 66	3022	3978	2216	1284	140	404	O
ATOM 6551 CB LEU C 66	-14.262	2.582	-11.134	1.00	27.22		C
ANISOU 6551 CB LEU C 66	3325	4462	2554	1587	-260	20	C
ATOM 6552 CG LEU C 66	-12.937	2.590	-10.379	1.00	30.02		C
ANISOU 6552 CG LEU C 66	3606	4824	2977	1491	-239	60	C
ATOM 6553 CD1 LEU C 66	-12.978	1.596	-9.225	1.00	29.95		C
ANISOU 6553 CD1 LEU C 66	3692	4585	3104	1381	-445	-47	C
ATOM 6554 CD2 LEU C 66	-11.792	2.260	-11.342	1.00	32.79		C
ANISOU 6554 CD2 LEU C 66	3793	5472	3193	1752	-203	31	C
ATOM 6555 H LEU C 66	-16.403	3.533	-12.125	1.00	28.02		H
ATOM 6556 HA LEU C 66	-15.750	2.469	-9.713	1.00	29.15		H
ATOM 6557 HB2 LEU C 66	-14.418	1.665	-11.409	1.00	32.66		H
ATOM 6558 HB3 LEU C 66	-14.132	3.127	-11.926	1.00	32.66		H
ATOM 6559 HG LEU C 66	-12.782	3.475	-10.013	1.00	36.03		H
ATOM 6560 HD11 LEU C 66	-12.127	1.618	-8.760	1.00	35.94		H
ATOM 6561 HD12 LEU C 66	-13.693	1.845	-8.619	1.00	35.94		H
ATOM 6562 HD13 LEU C 66	-13.138	0.708	-9.580	1.00	35.94		H
ATOM 6563 HD21 LEU C 66	-10.955	2.268	-10.852	1.00	39.35		H
ATOM 6564 HD22 LEU C 66	-11.944	1.381	-11.724	1.00	39.35		H
ATOM 6565 HD23 LEU C 66	-11.770	2.927	-12.046	1.00	39.35		H
ATOM 6566 N ALA C 67	-15.748	4.687	-8.621	1.00	20.32		N
ANISOU 6566 N ALA C 67	2696	3129	1895	1056	-9	325	N
ATOM 6567 CA ALA C 67	-15.912	6.041	-8.123	1.00	20.28		C
ANISOU 6567 CA ALA C 67	2807	3014	1885	946	167	466	C

ATOM 6568 C ALA C 67	-15.697	6.126	-6.621	1.00	20.88		C
ANISOU 6568 C ALA C 67	3036	2878	2020	763	136	461	C
ATOM 6569 O ALA C 67	-16.029	5.209	-5.867	1.00	19.40		O
ANISOU 6569 O ALA C 67	2873	2620	1879	726	22	393	O
ATOM 6570 CB ALA C 67	-17.312	6.588	-8.436	1.00	20.38		C
ANISOU 6570 CB ALA C 67	2862	3018	1862	1043	274	542	C
ATOM 6571 H ALA C 67	-15.914	4.068	-8.048	1.00	24.38		H
ATOM 6572 HA ALA C 67	-15.261	6.617	-8.553	1.00	24.34		H
ATOM 6573 HB1 ALA C 67	-17.382	7.491	-8.088	1.00	24.45		H
ATOM 6574 HB2 ALA C 67	-17.441	6.592	-9.397	1.00	24.45		H
ATOM 6575 HB3 ALA C 67	-17.974	6.018	-8.014	1.00	24.45		H
ATOM 6576 N LEU C 68	-15.158	7.262	-6.199	1.00	20.92		N
ANISOU 6576 N LEU C 68	3166	2769	2012	641	219	545	N
ATOM 6577 CA LEU C 68	-15.269	7.653	-4.804	1.00	21.31		C
ANISOU 6577 CA LEU C 68	3451	2589	2057	511	212	538	C
ATOM 6578 C LEU C 68	-16.727	7.974	-4.513	1.00	20.60		C
ANISOU 6578 C LEU C 68	3485	2435	1909	639	345	572	C
ATOM 6579 O LEU C 68	-17.346	8.772	-5.221	1.00	21.06		O
ANISOU 6579 O LEU C 68	3556	2518	1930	760	481	651	O
ATOM 6580 CB LEU C 68	-14.390	8.868	-4.518	1.00	22.79		C
ANISOU 6580 CB LEU C 68	3790	2628	2240	345	222	613	C
ATOM 6581 CG LEU C 68	-14.247	9.276	-3.061	1.00	25.03		C
ANISOU 6581 CG LEU C 68	4370	2655	2484	205	152	569	C
ATOM 6582 CD1 LEU C 68	-13.477	8.208	-2.280	1.00	24.49		C
ANISOU 6582 CD1 LEU C 68	4229	2620	2458	90	-36	489	C
ATOM 6583 CD2 LEU C 68	-13.552	10.627	-2.983	1.00	26.92		C
ANISOU 6583 CD2 LEU C 68	4803	2699	2729	36	127	650	C
ATOM 6584 H LEU C 68	-14.727	7.818	-6.694	1.00	25.10		H
ATOM 6585 HA LEU C 68	-14.989	6.921	-4.233	1.00	25.57		H
ATOM 6586 HB2 LEU C 68	-13.499	8.683	-4.853	1.00	27.35		H
ATOM 6587 HB3 LEU C 68	-14.760	9.628	-4.993	1.00	27.35		H
ATOM 6588 HG LEU C 68	-15.128	9.364	-2.666	1.00	30.03		H
ATOM 6589 HD11 LEU C 68	-13.398	8.489	-1.355	1.00	29.39		H
ATOM 6590 HD12 LEU C 68	-13.962	7.369	-2.331	1.00	29.39		H
ATOM 6591 HD13 LEU C 68	-12.595	8.105	-2.671	1.00	29.39		H
ATOM 6592 HD21 LEU C 68	-13.463	10.882	-2.052	1.00	32.31		H
ATOM 6593 HD22 LEU C 68	-12.675	10.554	-3.392	1.00	32.31		H
ATOM 6594 HD23 LEU C 68	-14.086	11.283	-3.457	1.00	32.31		H
ATOM 6595 N VAL C 69	-17.289	7.323	-3.504	1.00	20.35		N
ANISOU 6595 N VAL C 69	3514	2350	1866	630	313	541	N
ATOM 6596 CA VAL C 69	-18.676	7.524	-3.103	1.00	20.79		C
ANISOU 6596 CA VAL C 69	3631	2406	1863	766	458	614	C
ATOM 6597 C VAL C 69	-18.689	7.810	-1.608	1.00	22.16		C
ANISOU 6597 C VAL C 69	4072	2417	1931	726	495	602	C
ATOM 6598 O VAL C 69	-18.055	7.092	-0.830	1.00	21.45		O
ANISOU 6598 O VAL C 69	4013	2283	1852	590	353	547	O
ATOM 6599 CB VAL C 69	-19.545	6.294	-3.435	1.00	20.61		C
ANISOU 6599 CB VAL C 69	3364	2546	1919	806	386	645	C
ATOM 6600 CG1 VAL C 69	-20.980	6.502	-2.985	1.00	21.68		C
ANISOU 6600 CG1 VAL C 69	3487	2742	2008	933	548	784	C
ATOM 6601 CG2 VAL C 69	-19.500	5.997	-4.927	1.00	19.89		C
ANISOU 6601 CG2 VAL C 69	3068	2604	1886	871	311	618	C
ATOM 6602 H VAL C 69	-16.876	6.743	-3.022	1.00	24.42		H

ATOM	6603	HA	VAL C 69	-19.040	8.294	-3.568	1.00	24.95	H	
ATOM	6604	HB	VAL C 69	-19.192	5.522	-2.965	1.00	24.73	H	
ATOM	6605	HG11	VAL C 69	-21.498	5.712	-3.208	1.00	26.02	H	
ATOM	6606	HG12	VAL C 69	-20.992	6.646	-2.026	1.00	26.02	H	
ATOM	6607	HG13	VAL C 69	-21.344	7.277	-3.441	1.00	26.02	H	
ATOM	6608	HG21	VAL C 69	-20.052	5.221	-5.111	1.00	23.87	H	
ATOM	6609	HG22	VAL C 69	-19.838	6.767	-5.412	1.00	23.87	H	
ATOM	6610	HG23	VAL C 69	-18.582	5.820	-5.186	1.00	23.87	H	
ATOM	6611	N	GLY C 70	-19.389	8.860	-1.209	1.00	23.91	N	
ANISOU	6611	N	GLY C 70	4510	2547	2027	877	677	650	N
ATOM	6612	CA	GLY C 70	-19.434	9.182	0.204	1.00	26.51	C	
ANISOU	6612	CA	GLY C 70	5149	2728	2196	899	719	617	C
ATOM	6613	C	GLY C 70	-20.621	10.065	0.495	1.00	29.99	C	
ANISOU	6613	C	GLY C 70	5754	3157	2482	1185	968	691	C
ATOM	6614	O	GLY C 70	-21.344	10.500	-0.405	1.00	28.33	O	
ANISOU	6614	O	GLY C 70	5413	3038	2312	1346	1093	776	O
ATOM	6615	H	GLY C 70	-19.834	9.389	-1.720	1.00	28.69	H	
ATOM	6616	HA2	GLY C 70	-19.511	8.368	0.727	1.00	31.81	H	
ATOM	6617	HA3	GLY C 70	-18.624	9.647	0.464	1.00	31.81	H	
ATOM	6618	N	TRP C 71	-20.813	10.323	1.781	1.00	33.06	N	
ANISOU	6618	N	TRP C 71	6424	3451	2686	1275	1034	652	N
ATOM	6619	CA	TRP C 71	-21.889	11.181	2.235	1.00	36.13	C	
ANISOU	6619	CA	TRP C 71	6940	3826	2963	1588	1247	669	C
ATOM	6620	C	TRP C 71	-21.352	12.167	3.258	1.00	36.95	C	
ANISOU	6620	C	TRP C 71	7586	3611	2842	1652	1219	522	C
ATOM	6621	O	TRP C 71	-20.362	11.902	3.946	1.00	37.27	O	
ANISOU	6621	O	TRP C 71	7842	3518	2801	1441	1035	423	O
ATOM	6622	CB	TRP C 71	-23.045	10.373	2.872	1.00	37.53	C	
ANISOU	6622	CB	TRP C 71	6836	4276	3149	1711	1372	804	C
ATOM	6623	CG	TRP C 71	-23.670	9.337	1.968	1.00	34.70	C	
ANISOU	6623	CG	TRP C 71	5998	4202	2986	1627	1359	967	C
ATOM	6624	CD1	TRP C 71	-23.125	8.146	1.581	1.00	33.06	C	
ANISOU	6624	CD1	TRP C 71	5599	4069	2892	1370	1183	1000	C
ATOM	6625	CD2	TRP C 71	-24.970	9.396	1.364	1.00	34.83	C	
ANISOU	6625	CD2	TRP C 71	5704	4440	3090	1815	1496	1136	C
ATOM	6626	NE1	TRP C 71	-24.002	7.464	0.765	1.00	32.00	N	
ANISOU	6626	NE1	TRP C 71	5091	4168	2901	1376	1192	1170	N
ATOM	6627	CE2	TRP C 71	-25.143	8.208	0.620	1.00	32.89	C	
ANISOU	6627	CE2	TRP C 71	5102	4393	3003	1628	1382	1259	C
ATOM	6628	CE3	TRP C 71	-26.003	10.339	1.375	1.00	37.11	C	
ANISOU	6628	CE3	TRP C 71	5998	4769	3333	2137	1677	1217	C
ATOM	6629	CZ2	TRP C 71	-26.301	7.942	-0.104	1.00	32.54	C	
ANISOU	6629	CZ2	TRP C 71	4697	4597	3069	1719	1436	1457	C
ATOM	6630	CZ3	TRP C 71	-27.157	10.070	0.652	1.00	36.96	C	
ANISOU	6630	CZ3	TRP C 71	5592	5018	3435	2241	1737	1423	C
ATOM	6631	CH2	TRP C 71	-27.293	8.883	-0.077	1.00	34.37	C	
ANISOU	6631	CH2	TRP C 71	4900	4897	3263	2017	1616	1537	C
ATOM	6632	H	TRP C 71	-20.326	10.008	2.416	1.00	39.67	H	
ATOM	6633	HA	TRP C 71	-22.242	11.681	1.482	1.00	43.36	H	
ATOM	6634	HB2	TRP C 71	-22.705	9.912	3.654	1.00	45.04	H	
ATOM	6635	HB3	TRP C 71	-23.744	10.991	3.137	1.00	45.04	H	
ATOM	6636	HD1	TRP C 71	-22.284	7.839	1.831	1.00	39.67	H	
ATOM	6637	HE1	TRP C 71	-23.859	6.694	0.409	1.00	38.40	H	

ATOM 6638	HE3 TRP C 71	-25.918	11.129	1.858	1.00	44.53	H
ATOM 6639	HZ2 TRP C 71	-26.395	7.156	-0.592	1.00	39.05	H
ATOM 6640	HZ3 TRP C 71	-27.852	10.688	0.653	1.00	44.36	H
ATOM 6641	HH2 TRP C 71	-28.078	8.729	-0.552	1.00	41.25	H
ATOM 6642	N THR C 72	-22.008	13.316	3.334	1.00	37.66	N
ANISOU 6642	N THR C 72	7923	3558	2827	1953	1365 520	N
ATOM 6643	CA THR C 72	-21.984	14.138	4.530	1.00	39.32	C
ANISOU 6643	CA THR C 72	8626	3514	2801	2122	1357 428	C
ATOM 6644	C THR C 72	-23.417	14.300	5.008	1.00	41.75	C
ANISOU 6644	C THR C 72	8798	4017	3050	2500	1582 571	C
ATOM 6645	O THR C 72	-24.373	14.055	4.265	1.00	40.43	O
ANISOU 6645	O THR C 72	8226	4108	3028	2626	1723 734	O
ATOM 6646	CB THR C 72	-21.355	15.520	4.290	1.00	40.66	C
ANISOU 6646	CB THR C 72	9309	3304	2835	2106	1246 345	C
ATOM 6647	OG1 THR C 72	-22.121	16.229	3.311	1.00	40.87	O
ANISOU 6647	OG1 THR C 72	9234	3398	2897	2305	1403 468	O
ATOM 6648	CG2 THR C 72	-19.898	15.382	3.830	1.00	38.65	C
ANISOU 6648	CG2 THR C 72	9129	2874	2683	1685	986 214	C
ATOM 6649	H THR C 72	-22.481	13.645	2.696	1.00	45.19	H
ATOM 6650	HA THR C 72	-21.478	13.686	5.223	1.00	47.19	H
ATOM 6651	HB THR C 72	-21.362	16.020	5.121	1.00	48.79	H
ATOM 6652	HG1 THR C 72	-22.131	15.800	2.589	1.00	49.05	H
ATOM 6653	HG21 THR C 72	-19.512	16.260	3.682	1.00	46.38	H
ATOM 6654	HG22 THR C 72	-19.379	14.919	4.507	1.00	46.38	H
ATOM 6655	HG23 THR C 72	-19.858	14.877	3.002	1.00	46.38	H
ATOM 6656	N ARG C 73	-23.554	14.683	6.271	1.00	44.58	N
ANISOU 6656	N ARG C 73	9486	4272	3179	2674	1593 521	N
ATOM 6657	CA ARG C 73	-24.825	15.117	6.826	1.00	48.55	C
ANISOU 6657	CA ARG C 73	9977	4919	3549	3085	1803 652	C
ATOM 6658	C ARG C 73	-24.753	16.609	7.125	1.00	51.88	C
ANISOU 6658	C ARG C 73	10977	5013	3722	3308	1764 578	C
ATOM 6659	O ARG C 73	-23.688	17.230	7.066	1.00	51.60	O
ANISOU 6659	O ARG C 73	11347	4648	3611	3094	1548 420	O
ATOM 6660	CB ARG C 73	-25.174	14.311	8.086	1.00	51.08	C
ANISOU 6660	CB ARG C 73	10194	5457	3758	3152	1878 682	C
ATOM 6661	CG ARG C 73	-25.374	12.825	7.833	1.00	48.44	C
ANISOU 6661	CG ARG C 73	9295	5480	3629	2909	1905 804	C
ATOM 6662	CD ARG C 73	-25.748	12.102	9.118	1.00	52.75	C
ANISOU 6662	CD ARG C 73	9772	6245	4026	2970	1990 878	C
ATOM 6663	NE ARG C 73	-26.440	10.841	8.853	1.00	52.85	N
ANISOU 6663	NE ARG C 73	9215	6648	4216	2828	2068 1106	N
ATOM 6664	CZ ARG C 73	-25.886	9.632	8.895	1.00	51.62	C
ANISOU 6664	CZ ARG C 73	8862	6593	4159	2473	1937 1133	C
ATOM 6665	NH1 ARG C 73	-24.604	9.477	9.200	1.00	50.78	N
ANISOU 6665	NH1 ARG C 73	9042	6256	3994	2234	1725 944	N
ATOM 6666	NH2 ARG C 73	-26.631	8.563	8.633	1.00	51.28	N
ANISOU 6666	NH2 ARG C 73	8342	6869	4272	2351	1991 1378	N
ATOM 6667	H ARG C 73	-22.909	14.699	6.839	1.00	53.49	H
ATOM 6668	HA ARG C 73	-25.526	14.972	6.170	1.00	58.25	H
ATOM 6669	HB2 ARG C 73	-24.453	14.408	8.728	1.00	61.30	H
ATOM 6670	HB3 ARG C 73	-25.997	14.661	8.462	1.00	61.30	H
ATOM 6671	HG2 ARG C 73	-26.092	12.701	7.192	1.00	58.12	H
ATOM 6672	HG3 ARG C 73	-24.549	12.442	7.495	1.00	58.12	H

ATOM	6673	HD2 ARG C 73	-24.941	11.905	9.619	1.00	63.30		H
ATOM	6674	HD3 ARG C 73	-26.338	12.667	9.641	1.00	63.30		H
ATOM	6675	HE ARG C 73	-27.275	10.885	8.653	1.00	63.42		H
ATOM	6676	HH11 ARG C 73	-24.117	10.164	9.371	1.00	60.93		H
ATOM	6677	HH12 ARG C 73	-24.260	8.689	9.224	1.00	60.93		H
ATOM	6678	HH21 ARG C 73	-27.463	8.656	8.435	1.00	61.53		H
ATOM	6679	HH22 ARG C 73	-26.281	7.778	8.659	1.00	61.53		H
ATOM	6680	N SER C 74	-25.910	17.191	7.421	1.00	55.18		N
ANISOU	6680	N SER C 74	11417	5551	3998	3721	1955	704	N
ATOM	6681	CA SER C 74	-26.011	18.603	7.771	1.00	59.60		C
ANISOU	6681	CA SER C 74	12526	5843	4275	3986	1931	635	C
ATOM	6682	C SER C 74	-25.328	19.482	6.723	1.00	58.56		C
ANISOU	6682	C SER C 74	12622	5447	4181	3778	1783	553	C
ATOM	6683	O SER C 74	-24.351	20.181	7.031	1.00	59.97		O
ANISOU	6683	O SER C 74	13274	5283	4230	3598	1550	355	O
ATOM	6684	CB SER C 74	-25.425	18.851	9.153	1.00	62.79		C
ANISOU	6684	CB SER C 74	13420	6023	4415	4023	1794	454	C
ATOM	6685	OG SER C 74	-26.187	18.192	10.145	1.00	64.71		O
ANISOU	6685	OG SER C 74	13473	6548	4565	4278	1977	542	O
ATOM	6686	H SER C 74	-26.665	16.780	7.428	1.00	66.22		H
ATOM	6687	HA SER C 74	-26.949	18.850	7.798	1.00	71.52		H
ATOM	6688	HB2 SER C 74	-24.516	18.514	9.176	1.00	75.35		H
ATOM	6689	HB3 SER C 74	-25.430	19.805	9.332	1.00	75.35		H
ATOM	6690	HG SER C 74	-25.856	18.335	10.904	1.00	77.65		H
ATOM	6691	N PRO C 75	-25.812	19.480	5.470	1.00	56.50		N
ANISOU	6691	N PRO C 75	12013	5354	4100	3774	1894	696	N
ATOM	6692	CA PRO C 75	-26.979	18.730	4.996	1.00	55.30		C
ANISOU	6692	CA PRO C 75	11281	5605	4126	3946	2103	939	C
ATOM	6693	C PRO C 75	-26.603	17.365	4.433	1.00	50.59		C
ANISOU	6693	C PRO C 75	10183	5197	3841	3615	2054	970	C
ATOM	6694	O PRO C 75	-25.418	17.102	4.227	1.00	47.78		O
ANISOU	6694	O PRO C 75	9942	4655	3557	3276	1882	819	O
ATOM	6695	CB PRO C 75	-27.545	19.630	3.892	1.00	56.28		C
ANISOU	6695	CB PRO C 75	11385	5754	4243	4086	2185	1042	C
ATOM	6696	CG PRO C 75	-26.417	20.638	3.553	1.00	56.80		C
ANISOU	6696	CG PRO C 75	11930	5430	4221	3864	2003	813	C
ATOM	6697	CD PRO C 75	-25.213	20.248	4.370	1.00	55.56		C
ANISOU	6697	CD PRO C 75	12023	5049	4037	3568	1791	618	C
ATOM	6698	HA PRO C 75	-27.633	18.627	5.705	1.00	66.36		H
ATOM	6699	HB2 PRO C 75	-27.766	19.092	3.116	1.00	67.53		H
ATOM	6700	HB3 PRO C 75	-28.330	20.094	4.222	1.00	67.53		H
ATOM	6701	HG2 PRO C 75	-26.214	20.585	2.606	1.00	68.16		H
ATOM	6702	HG3 PRO C 75	-26.707	21.534	3.786	1.00	68.16		H
ATOM	6703	HD2 PRO C 75	-24.615	19.689	3.850	1.00	66.67		H
ATOM	6704	HD3 PRO C 75	-24.763	21.037	4.711	1.00	66.67		H
ATOM	6705	N LEU C 76	-27.601	16.519	4.177	1.00	49.68		N
ANISOU	6705	N LEU C 76	9522	5460	3896	3702	2183	1160	N
ATOM	6706	CA LEU C 76	-27.354	15.198	3.615	1.00	45.66		C
ANISOU	6706	CA LEU C 76	8524	5162	3662	3389	2118	1177	C
ATOM	6707	C LEU C 76	-26.958	15.334	2.150	1.00	44.14		C
ANISOU	6707	C LEU C 76	8206	4920	3644	3219	2037	1183	C
ATOM	6708	O LEU C 76	-27.782	15.701	1.303	1.00	44.79		O
ANISOU	6708	O LEU C 76	8098	5148	3773	3374	2110	1352	O

ATOM 6709 CB LEU C 76	-28.589	14.315	3.753	1.00	46.49		C
ANISOU 6709 CB LEU C 76	8106	5696	3863	3495	2246	1402	C
ATOM 6710 CG LEU C 76	-28.349	12.859	3.334	1.00	43.03		C
ANISOU 6710 CG LEU C 76	7212	5482	3654	3136	2150	1424	C
ATOM 6711 CD1 LEU C 76	-27.339	12.192	4.250	1.00	41.80		C
ANISOU 6711 CD1 LEU C 76	7229	5220	3432	2886	2052	1256	C
ATOM 6712 CD2 LEU C 76	-29.658	12.080	3.316	1.00	44.79		C
ANISOU 6712 CD2 LEU C 76	6927	6121	3972	3212	2251	1703	C
ATOM 6713 H LEU C 76	-28.432	16.689	4.322	1.00	59.62		H
ATOM 6714 HA LEU C 76	-26.622	14.777	4.092	1.00	54.79		H
ATOM 6715 HB2 LEU C 76	-28.872	14.315	4.681	1.00	55.79		H
ATOM 6716 HB3 LEU C 76	-29.295	14.674	3.193	1.00	55.79		H
ATOM 6717 HG LEU C 76	-27.985	12.848	2.435	1.00	51.63		H
ATOM 6718 HD11 LEU C 76	-27.208	11.275	3.961	1.00	50.16		H
ATOM 6719 HD12 LEU C 76	-26.501	12.677	4.203	1.00	50.16		H
ATOM 6720 HD13 LEU C 76	-27.679	12.207	5.159	1.00	50.16		H
ATOM 6721 HD21 LEU C 76	-29.478	11.165	3.048	1.00	53.75		H
ATOM 6722 HD22 LEU C 76	-30.046	12.094	4.205	1.00	53.75		H
ATOM 6723 HD23 LEU C 76	-30.264	12.496	2.684	1.00	53.75		H
ATOM 6724 N ILE C 77	-25.697	15.043	1.852	1.00	40.77		N
ANISOU 6724 N ILE C 77	7888	4312	3291	2905	1887	1011	N
ATOM 6725 CA ILE C 77	-25.159	15.121	0.500	1.00	38.23		C
ANISOU 6725 CA ILE C 77	7452	3956	3120	2737	1817	997	C
ATOM 6726 C ILE C 77	-24.533	13.774	0.179	1.00	35.93		C
ANISOU 6726 C ILE C 77	6805	3845	3002	2401	1697	931	C
ATOM 6727 O ILE C 77	-23.858	13.182	1.026	1.00	34.11		O
ANISOU 6727 O ILE C 77	6674	3570	2716	2209	1604	829	O
ATOM 6728 CB ILE C 77	-24.113	16.251	0.359	1.00	38.47		C
ANISOU 6728 CB ILE C 77	7957	3667	2991	2592	1737	831	C
ATOM 6729 CG1 ILE C 77	-24.758	17.622	0.604	1.00	42.63		C
ANISOU 6729 CG1 ILE C 77	8845	4077	3274	2874	1842	870	C
ATOM 6730 CG2 ILE C 77	-23.446	16.211	-1.016	1.00	36.33		C
ANISOU 6730 CG2 ILE C 77	7513	3421	2871	2400	1700	786	C
ATOM 6731 CD1 ILE C 77	-23.755	18.758	0.761	1.00	45.06		C
ANISOU 6731 CD1 ILE C 77	9669	3999	3454	2738	1699	662	C
ATOM 6732 H ILE C 77	-25.116	14.791	2.434	1.00	48.92		H
ATOM 6733 HA ILE C 77	-25.880	15.285	-0.129	1.00	45.88		H
ATOM 6734 HB ILE C 77	-23.427	16.114	1.032	1.00	46.16		H
ATOM 6735 HG12 ILE C 77	-25.332	17.836	-0.148	1.00	51.15		H
ATOM 6736 HG13 ILE C 77	-25.285	17.578	1.418	1.00	51.15		H
ATOM 6737 HG21 ILE C 77	-22.797	16.930	-1.073	1.00	43.60		H
ATOM 6738 HG22 ILE C 77	-23.003	15.355	-1.127	1.00	43.60		H
ATOM 6739 HG23 ILE C 77	-24.125	16.324	-1.699	1.00	43.60		H
ATOM 6740 HD11 ILE C 77	-24.237	19.586	0.912	1.00	54.08		H
ATOM 6741 HD12 ILE C 77	-23.178	18.568	1.518	1.00	54.08		H
ATOM 6742 HD13 ILE C 77	-23.226	18.826	-0.050	1.00	54.08		H
ATOM 6743 N ALA C 78	-24.775	13.281	-1.032	1.00	35.13		N
ANISOU 6743 N ALA C 78	6313	3962	3073	2320	1665	1020	N
ATOM 6744 CA ALA C 78	-24.065	12.130	-1.573	1.00	33.94		C
ANISOU 6744 CA ALA C 78	5901	3948	3047	1994	1496	993	C
ATOM 6745 C ALA C 78	-23.182	12.626	-2.703	1.00	32.72		C
ANISOU 6745 C ALA C 78	5802	3685	2945	1868	1406	955	C
ATOM 6746 O ALA C 78	-23.664	13.307	-3.609	1.00	34.76		O

ANISOU 6746	O	ALA C 78	5999	3977	3231	2024	1480	1024	O
ATOM 6747	CB	ALA C 78	-25.027	11.061	-2.090	1.00	34.13		C
ANISOU 6747	CB	ALA C 78	5460	4310	3199	1992	1486	1149	C
ATOM 6748	H	ALA C 78	-25.361	13.606	-1.571	1.00	42.16		H
ATOM 6749	HA	ALA C 78	-23.503	11.739	-0.886	1.00	40.73		H
ATOM 6750	HB1	ALA C 78	-24.512	10.317	-2.440	1.00	40.96		H
ATOM 6751	HB2	ALA C 78	-25.588	10.761	-1.358	1.00	40.96		H
ATOM 6752	HB3	ALA C 78	-25.575	11.444	-2.793	1.00	40.96		H
ATOM 6753	N	TYR C 79	-21.893	12.326	-2.629	1.00	30.75		N
ANISOU 6753	N	TYR C 79	5657	3315	2711	1596	1240	872	N
ATOM 6754	CA	TYR C 79	-20.949	12.808	-3.619	1.00	29.79		C
ANISOU 6754	CA	TYR C 79	5556	3104	2659	1454	1145	880	C
ATOM 6755	C	TYR C 79	-20.277	11.635	-4.313	1.00	26.28		C
ANISOU 6755	C	TYR C 79	4785	2861	2338	1255	986	860	C
ATOM 6756	O	TYR C 79	-20.176	10.533	-3.760	1.00	23.80		O
ANISOU 6756	O	TYR C 79	4350	2635	2059	1155	891	800	O
ATOM 6757	CB	TYR C 79	-19.899	13.738	-2.988	1.00	32.36		C
ANISOU 6757	CB	TYR C 79	6282	3081	2932	1303	1058	807	C
ATOM 6758	CG	TYR C 79	-19.026	13.122	-1.907	1.00	31.49		C
ANISOU 6758	CG	TYR C 79	6269	2888	2808	1076	895	685	C
ATOM 6759	CD1	TYR C 79	-17.806	12.547	-2.224	1.00	30.04		C
ANISOU 6759	CD1	TYR C 79	5902	2760	2752	792	704	660	C
ATOM 6760	CD2	TYR C 79	-19.401	13.167	-0.568	1.00	33.39		C
ANISOU 6760	CD2	TYR C 79	6790	3012	2885	1177	935	607	C
ATOM 6761	CE1	TYR C 79	-16.993	11.997	-1.248	1.00	29.90		C
ANISOU 6761	CE1	TYR C 79	5955	2677	2727	596	536	564	C
ATOM 6762	CE2	TYR C 79	-18.591	12.620	0.423	1.00	32.87		C
ANISOU 6762	CE2	TYR C 79	6826	2875	2786	973	765	504	C
ATOM 6763	CZ	TYR C 79	-17.386	12.039	0.074	1.00	30.92		C
ANISOU 6763	CZ	TYR C 79	6378	2675	2696	673	554	485	C
ATOM 6764	OH	TYR C 79	-16.565	11.497	1.041	1.00	31.51		O
ANISOU 6764	OH	TYR C 79	6535	2692	2745	482	367	400	O
ATOM 6765	H	TYR C 79	-21.540	11.843	-2.011	1.00	36.90		H
ATOM 6766	HA	TYR C 79	-21.431	13.316	-4.290	1.00	35.75		H
ATOM 6767	HB2	TYR C 79	-19.310	14.053	-3.691	1.00	38.83		H
ATOM 6768	HB3	TYR C 79	-20.360	14.494	-2.592	1.00	38.83		H
ATOM 6769	HD1	TYR C 79	-17.536	12.515	-3.114	1.00	36.05		H
ATOM 6770	HD2	TYR C 79	-20.212	13.557	-0.332	1.00	40.07		H
ATOM 6771	HE1	TYR C 79	-16.181	11.609	-1.482	1.00	35.87		H
ATOM 6772	HE2	TYR C 79	-18.856	12.649	1.314	1.00	39.44		H
ATOM 6773	HH	TYR C 79	-16.917	11.587	1.799	1.00	37.81		H
ATOM 6774	N	TYR C 80	-19.835	11.899	-5.541	1.00	25.38		N
ANISOU 6774	N	TYR C 80	4543	2822	2280	1225	958	912	N
ATOM 6775	CA	TYR C 80	-19.230	10.914	-6.418	1.00	24.29		C
ANISOU 6775	CA	TYR C 80	4109	2900	2219	1124	829	880	C
ATOM 6776	C	TYR C 80	-18.046	11.542	-7.139	1.00	25.38		C
ANISOU 6776	C	TYR C 80	4253	3012	2378	998	798	933	C
ATOM 6777	O	TYR C 80	-18.142	12.667	-7.638	1.00	26.00		O
ANISOU 6777	O	TYR C 80	4452	2999	2427	1053	893	1054	O
ATOM 6778	CB	TYR C 80	-20.230	10.403	-7.468	1.00	24.77		C
ANISOU 6778	CB	TYR C 80	3919	3211	2284	1301	847	931	C
ATOM 6779	CG	TYR C 80	-21.553	9.948	-6.911	1.00	24.39		C
ANISOU 6779	CG	TYR C 80	3801	3229	2238	1418	892	966	C

ATOM 6780 CD1 TYR C 80	-22.600	10.839	-6.747	1.00	26.41		C
ANISOU 6780 CD1 TYR C 80	4143	3460	2431	1627	1071	1085	C
ATOM 6781 CD2 TYR C 80	-21.761	8.622	-6.556	1.00	24.46		C
ANISOU 6781 CD2 TYR C 80	3643	3334	2317	1327	753	911	C
ATOM 6782 CE1 TYR C 80	-23.815	10.430	-6.238	1.00	27.35		C
ANISOU 6782 CE1 TYR C 80	4133	3705	2553	1745	1138	1170	C
ATOM 6783 CE2 TYR C 80	-22.971	8.202	-6.044	1.00	25.45		C
ANISOU 6783 CE2 TYR C 80	3657	3548	2464	1394	793	1007	C
ATOM 6784 CZ TYR C 80	-23.993	9.110	-5.888	1.00	27.47		C
ANISOU 6784 CZ TYR C 80	3949	3835	2652	1605	999	1147	C
ATOM 6785 OH TYR C 80	-25.204	8.704	-5.379	1.00	30.26		O
ANISOU 6785 OH TYR C 80	4130	4341	3026	1685	1065	1294	O
ATOM 6786 H TYR C 80	-19.880	12.680	-5.898	1.00	30.46		H
ATOM 6787 HA TYR C 80	-18.913	10.161	-5.896	1.00	29.15		H
ATOM 6788 HB2 TYR C 80	-20.408	11.118	-8.099	1.00	29.73		H
ATOM 6789 HB3 TYR C 80	-19.833	9.650	-7.933	1.00	29.73		H
ATOM 6790 HD1 TYR C 80	-22.480	11.731	-6.981	1.00	31.69		H
ATOM 6791 HD2 TYR C 80	-21.070	8.008	-6.659	1.00	29.35		H
ATOM 6792 HE1 TYR C 80	-24.507	11.041	-6.130	1.00	32.82		H
ATOM 6793 HE2 TYR C 80	-23.096	7.311	-5.807	1.00	30.54		H
ATOM 6794 HH TYR C 80	-25.182	7.882	-5.207	1.00	36.31		H
ATOM 6795 N VAL C 81	-16.941	10.807	-7.209	1.00	25.13		N
ANISOU 6795 N VAL C 81	4073	3075	2400	842	668	874	N
ATOM 6796 CA VAL C 81	-15.840	11.116	-8.115	1.00	26.24		C
ANISOU 6796 CA VAL C 81	4081	3330	2558	754	655	969	C
ATOM 6797 C VAL C 81	-15.662	9.901	-9.013	1.00	25.47		C
ANISOU 6797 C VAL C 81	3696	3541	2442	870	595	897	C
ATOM 6798 O VAL C 81	-15.160	8.860	-8.570	1.00	23.98		O
ANISOU 6798 O VAL C 81	3418	3399	2295	820	466	774	O
ATOM 6799 CB VAL C 81	-14.542	11.454	-7.370	1.00	28.02		C
ANISOU 6799 CB VAL C 81	4383	3410	2853	483	550	992	C
ATOM 6800 CG1 VAL C 81	-13.415	11.755	-8.355	1.00	29.83		C
ANISOU 6800 CG1 VAL C 81	4395	3827	3111	389	561	1159	C
ATOM 6801 CG2 VAL C 81	-14.765	12.632	-6.436	1.00	29.38		C
ANISOU 6801 CG2 VAL C 81	4927	3220	3018	383	557	1018	C
ATOM 6802 H VAL C 81	-16.804	10.106	-6.731	1.00	30.15		H
ATOM 6803 HA VAL C 81	-16.081	11.874	-8.669	1.00	31.48		H
ATOM 6804 HB VAL C 81	-14.276	10.691	-6.833	1.00	33.62		H
ATOM 6805 HG11 VAL C 81	-12.609	11.964	-7.858	1.00	35.80		H
ATOM 6806 HG12 VAL C 81	-13.267	10.975	-8.912	1.00	35.80		H
ATOM 6807 HG13 VAL C 81	-13.671	12.511	-8.905	1.00	35.80		H
ATOM 6808 HG21 VAL C 81	-13.935	12.831	-5.975	1.00	35.26		H
ATOM 6809 HG22 VAL C 81	-15.046	13.400	-6.959	1.00	35.26		H
ATOM 6810 HG23 VAL C 81	-15.454	12.399	-5.794	1.00	35.26		H
ATOM 6811 N VAL C 82	-16.067	10.032	-10.271	1.00	23.43		N
ANISOU 6811 N VAL C 82	3323	3477	2102	1046	670	967	N
ATOM 6812 CA VAL C 82	-16.151	8.903	-11.191	1.00	23.27		C
ANISOU 6812 CA VAL C 82	3106	3721	2015	1219	591	862	C
ATOM 6813 C VAL C 82	-14.926	8.902	-12.096	1.00	24.46		C
ANISOU 6813 C VAL C 82	3087	4113	2094	1251	627	936	C
ATOM 6814 O VAL C 82	-14.752	9.805	-12.930	1.00	26.20		O
ANISOU 6814 O VAL C 82	3278	4439	2239	1288	761	1124	O
ATOM 6815 CB VAL C 82	-17.439	8.958	-12.026	1.00	23.30		C

ANISOU 6815 CB VAL C 82	3095	3821	1938	1422	619	882	C
ATOM 6816 CG1 VAL C 82	-17.568	7.703	-12.873	1.00	23.98		C
ANISOU 6816 CG1 VAL C 82	3044	4122	1947	1584	463	729	C
ATOM 6817 CG2 VAL C 82	-18.653	9.139	-11.137	1.00	22.65		C
ANISOU 6817 CG2 VAL C 82	3127	3554	1925	1409	635	884	C
ATOM 6818 H VAL C 82	-16.304	10.780	-10.623	1.00	28.12		H
ATOM 6819 HA VAL C 82	-16.153	8.077	-10.683	1.00	27.93		H
ATOM 6820 HB VAL C 82	-17.392	9.719	-12.626	1.00	27.96		H
ATOM 6821 HG11 VAL C 82	-18.386	7.755	-13.392	1.00	28.78		H
ATOM 6822 HG12 VAL C 82	-16.802	7.643	-13.466	1.00	28.78		H
ATOM 6823 HG13 VAL C 82	-17.596	6.929	-12.289	1.00	28.78		H
ATOM 6824 HG21 VAL C 82	-19.449	9.170	-11.691	1.00	27.18		H
ATOM 6825 HG22 VAL C 82	-18.708	8.392	-10.520	1.00	27.18		H
ATOM 6826 HG23 VAL C 82	-18.562	9.970	-10.643	1.00	27.18		H
ATOM 6827 N ASP C 83	-14.111	7.856	-11.975	1.00	24.40		N
ANISOU 6827 N ASP C 83	2957	4217	2097	1269	515	808	N
ATOM 6828 CA ASP C 83	-12.913	7.691	-12.789	1.00	26.08		C
ANISOU 6828 CA ASP C 83	2964	4724	2222	1361	565	879	C
ATOM 6829 C ASP C 83	-13.125	6.830	-14.025	1.00	26.94		C
ANISOU 6829 C ASP C 83	2988	5108	2139	1694	536	755	C
ATOM 6830 O ASP C 83	-12.457	7.053	-15.041	1.00	28.95		O
ANISOU 6830 O ASP C 83	3097	5666	2238	1850	661	876	O
ATOM 6831 CB ASP C 83	-11.792	7.075	-11.942	1.00	28.61		C
ANISOU 6831 CB ASP C 83	3191	5030	2648	1240	462	822	C
ATOM 6832 CG ASP C 83	-10.924	8.123	-11.271	1.00	29.90		C
ANISOU 6832 CG ASP C 83	3334	5092	2933	934	510	1037	C
ATOM 6833 OD1 ASP C 83	-11.226	9.330	-11.416	1.00	30.31		O
ANISOU 6833 OD1 ASP C 83	3490	5032	2996	811	615	1215	O
ATOM 6834 OD2 ASP C 83	-9.942	7.736	-10.600	1.00	31.19		O
ANISOU 6834 OD2 ASP C 83	3392	5271	3188	814	412	1031	O
ATOM 6835 H ASP C 83	-14.235	7.215	-11.415	1.00	29.28		H
ATOM 6836 HA ASP C 83	-12.615	8.565	-13.085	1.00	31.30		H
ATOM 6837 HB2 ASP C 83	-12.185	6.522	-11.249	1.00	34.33		H
ATOM 6838 HB3 ASP C 83	-11.223	6.536	-12.514	1.00	34.33		H
ATOM 6839 N SER C 84	-14.025	5.857	-13.977	1.00	25.94		N
ANISOU 6839 N SER C 84	2959	4889	2006	1805	361	531	N
ATOM 6840 CA SER C 84	-14.301	5.045	-15.154	1.00	27.22		C
ANISOU 6840 CA SER C 84	3112	5260	1971	2117	269	380	C
ATOM 6841 C SER C 84	-15.690	4.452	-15.004	1.00	26.70		C
ANISOU 6841 C SER C 84	3177	5006	1961	2111	67	231	C
ATOM 6842 O SER C 84	-16.309	4.518	-13.934	1.00	24.61		O
ANISOU 6842 O SER C 84	2974	4494	1883	1892	23	248	O
ATOM 6843 CB SER C 84	-13.238	3.953	-15.349	1.00	28.55		C
ANISOU 6843 CB SER C 84	3204	5581	2061	2315	179	219	C
ATOM 6844 OG SER C 84	-13.492	3.182	-16.515	1.00	30.36		O
ANISOU 6844 OG SER C 84	3533	5945	2058	2572	57	46	O
ATOM 6845 H SER C 84	-14.486	5.647	-13.282	1.00	31.12		H
ATOM 6846 HA SER C 84	-14.298	5.613	-15.940	1.00	32.67		H
ATOM 6847 HB2 SER C 84	-12.368	4.373	-15.434	1.00	34.25		H
ATOM 6848 HB3 SER C 84	-13.246	3.366	-14.576	1.00	34.25		H
ATOM 6849 HG SER C 84	-12.901	2.592	-16.603	1.00	36.43		H
ATOM 6850 N TRP C 85	-16.170	3.875	-16.099	1.00	29.08		N
ANISOU 6850 N TRP C 85	3518	5444	2086	2347	-61	99	N

ATOM 6851 CA TRP C 85	-17.514	3.332	-16.151	1.00	28.78		C
ANISOU 6851 CA TRP C 85	3574	5239	2122	2278	-266	-18	C
ATOM 6852 C TRP C 85	-17.614	2.425	-17.369	1.00	31.04		C
ANISOU 6852 C TRP C 85	3945	5610	2237	2492	-428	-251	C
ATOM 6853 O TRP C 85	-16.700	2.352	-18.194	1.00	32.55		O
ANISOU 6853 O TRP C 85	4127	6023	2218	2739	-329	-309	O
ATOM 6854 CB TRP C 85	-18.556	4.453	-16.215	1.00	27.66		C
ANISOU 6854 CB TRP C 85	3403	5098	2010	2202	-140	193	C
ATOM 6855 CG TRP C 85	-18.368	5.333	-17.414	1.00	29.56		C
ANISOU 6855 CG TRP C 85	3609	5577	2047	2372	49	312	C
ATOM 6856 CD1 TRP C 85	-18.969	5.195	-18.630	1.00	31.09		C
ANISOU 6856 CD1 TRP C 85	3823	5891	2101	2521	-15	236	C
ATOM 6857 CD2 TRP C 85	-17.511	6.479	-17.519	1.00	29.31		C
ANISOU 6857 CD2 TRP C 85	3506	5666	1963	2388	313	552	C
ATOM 6858 NE1 TRP C 85	-18.548	6.186	-19.483	1.00	32.28		N
ANISOU 6858 NE1 TRP C 85	3898	6238	2129	2659	207	414	N
ATOM 6859 CE2 TRP C 85	-17.649	6.985	-18.827	1.00	30.82		C
ANISOU 6859 CE2 TRP C 85	3643	6026	2041	2552	385	625	C
ATOM 6860 CE3 TRP C 85	-16.644	7.125	-16.636	1.00	27.86		C
ANISOU 6860 CE3 TRP C 85	3302	5402	1880	2206	473	706	C
ATOM 6861 CZ2 TRP C 85	-16.958	8.108	-19.270	1.00	31.87		C
ANISOU 6861 CZ2 TRP C 85	3700	6225	2184	2518	566	880	C
ATOM 6862 CZ3 TRP C 85	-15.957	8.237	-17.074	1.00	29.08		C
ANISOU 6862 CZ3 TRP C 85	3383	5605	2061	2141	654	932	C
ATOM 6863 CH2 TRP C 85	-16.118	8.721	-18.384	1.00	31.32		C
ANISOU 6863 CH2 TRP C 85	3612	6044	2243	2294	694	1027	C
ATOM 6864 H TRP C 85	-15.729	3.787	-16.833	1.00	34.89		H
ATOM 6865 HA TRP C 85	-17.680	2.801	-15.356	1.00	34.53		H
ATOM 6866 HB2 TRP C 85	-19.442	4.062	-16.263	1.00	33.20		H
ATOM 6867 HB3 TRP C 85	-18.477	5.005	-15.421	1.00	33.20		H
ATOM 6868 HD1 TRP C 85	-19.579	4.528	-18.849	1.00	37.31		H
ATOM 6869 HE1 TRP C 85	-18.803	6.285	-20.298	1.00	38.74		H
ATOM 6870 HE3 TRP C 85	-16.533	6.812	-15.768	1.00	33.43		H
ATOM 6871 HZ2 TRP C 85	-17.063	8.430	-20.137	1.00	38.24		H
ATOM 6872 HZ3 TRP C 85	-15.377	8.675	-16.493	1.00	34.90		H
ATOM 6873 HH2 TRP C 85	-15.641	9.472	-18.654	1.00	37.58		H
ATOM 6874 N GLY C 86	-18.745	1.734	-17.474	1.00	29.41		N
ANISOU 6874 N GLY C 86	3766	3632	3776	1889	-652	14	N
ATOM 6875 CA GLY C 86	-19.021	0.924	-18.641	1.00	31.88		C
ANISOU 6875 CA GLY C 86	4102	3872	4140	2035	-819	-191	C
ATOM 6876 C GLY C 86	-19.733	1.749	-19.687	1.00	32.16		C
ANISOU 6876 C GLY C 86	4053	3991	4175	1991	-781	-263	C
ATOM 6877 O GLY C 86	-19.093	2.450	-20.476	1.00	32.37		O
ANISOU 6877 O GLY C 86	3986	4352	3962	2055	-704	-278	O
ATOM 6878 H GLY C 86	-19.367	1.722	-16.880	1.00	35.29		H
ATOM 6879 HA2 GLY C 86	-18.191	0.589	-19.014	1.00	38.26		H
ATOM 6880 HA3 GLY C 86	-19.583	0.172	-18.396	1.00	38.26		H
ATOM 6881 N THR C 87	-21.060	1.689	-19.679	1.00	32.52		N
ANISOU 6881 N THR C 87	4128	3727	4500	1870	-830	-287	N
ATOM 6882 CA THR C 87	-21.910	2.498	-20.544	1.00	33.71		C
ANISOU 6882 CA THR C 87	4211	3908	4691	1810	-809	-353	C
ATOM 6883 C THR C 87	-22.678	3.464	-19.656	1.00	34.55		C
ANISOU 6883 C THR C 87	4267	3925	4937	1551	-624	-191	C

ATOM 6884 O THR C 87	-23.400	3.030	-18.752	1.00	34.08	O
ANISOU 6884 O THR C 87	4242	3584	5122	1377	-587 -94	O
ATOM 6885 CB THR C 87	-22.882	1.624	-21.339	1.00	36.23	C
ANISOU 6885 CB THR C 87	4592	3963	5212	1808	-1015 -520	C
ATOM 6886 OG1 THR C 87	-22.176	0.521	-21.919	1.00	39.28	O
ANISOU 6886 OG1 THR C 87	5081	4388	5455	1992	-1185 -661	O
ATOM 6887 CG2 THR C 87	-23.574	2.429	-22.441	1.00	36.72	C
ANISOU 6887 CG2 THR C 87	4605	4112	5235	1796	-1026 -617	C
ATOM 6888 H THR C 87	-21.506	1.167	-19.161	1.00	39.02	H
ATOM 6889 HA THR C 87	-21.363	3.006	-21.164	1.00	40.46	H
ATOM 6890 HB THR C 87	-23.565	1.283	-20.740	1.00	43.48	H
ATOM 6891 HG1 THR C 87	-21.821	0.057	-21.315	1.00	47.13	H
ATOM 6892 HG21 THR C 87	-24.185	1.859	-22.933	1.00	44.07	H
ATOM 6893 HG22 THR C 87	-24.073	3.163	-22.050	1.00	44.07	H
ATOM 6894 HG23 THR C 87	-22.913	2.787	-23.054	1.00	44.07	H
ATOM 6895 N ALA C 88	-22.515	4.764	-19.902	1.00	36.22	N
ANISOU 6895 N ALA C 88	4403	4390	4969	1473	-477 -133	N
ATOM 6896 CA ALA C 88	-23.247	5.767	-19.142	1.00	36.18	C
ANISOU 6896 CA ALA C 88	4379	4324	5043	1206	-296 1	C
ATOM 6897 C ALA C 88	-23.318	7.059	-19.943	1.00	33.48	C
ANISOU 6897 C ALA C 88	3975	4191	4555	1185	-247 -14	C
ATOM 6898 O ALA C 88	-22.423	7.371	-20.733	1.00	35.70	O
ANISOU 6898 O ALA C 88	4214	4746	4604	1323	-273 -30	O
ATOM 6899 CB ALA C 88	-22.600	6.023	-17.778	1.00	37.24	C
ANISOU 6899 CB ALA C 88	4568	4508	5072	1076	-147 183	C
ATOM 6900 H ALA C 88	-21.990	5.086	-20.502	1.00	43.47	H
ATOM 6901 HA ALA C 88	-24.153	5.454	-18.993	1.00	43.42	H
ATOM 6902 HB1 ALA C 88	-23.117	6.695	-17.306	1.00	44.68	H
ATOM 6903 HB2 ALA C 88	-22.593	5.196	-17.272	1.00	44.68	H
ATOM 6904 HB3 ALA C 88	-21.693	6.338	-17.913	1.00	44.68	H
ATOM 6905 N ARG C 89	-24.392	7.807	-19.719	1.00	28.03	N
ANISOU 6905 N ARG C 89	3274	3377	4000	1022	-169 12	N
ATOM 6906 CA ARG C 89	-24.646	9.067	-20.414	1.00	25.54	C
ANISOU 6906 CA ARG C 89	2929	3196	3579	988	-144 0	C
ATOM 6907 C ARG C 89	-24.879	10.117	-19.335	1.00	24.15	C
ANISOU 6907 C ARG C 89	2795	3001	3381	784	13 141	C
ATOM 6908 O ARG C 89	-25.948	10.162	-18.722	1.00	24.81	O
ANISOU 6908 O ARG C 89	2882	2894	3649	694	85 152	O
ATOM 6909 CB ARG C 89	-25.839	8.937	-21.356	1.00	25.04	C
ANISOU 6909 CB ARG C 89	2832	2977	3705	1056	-267 -161	C
ATOM 6910 CG ARG C 89	-25.881	9.953	-22.483	1.00	24.37	C
ANISOU 6910 CG ARG C 89	2744	3060	3457	1125	-308 -213	C
ATOM 6911 CD ARG C 89	-26.915	9.555	-23.520	1.00	23.81	C
ANISOU 6911 CD ARG C 89	2660	2830	3559	1261	-498 -414	C
ATOM 6912 NE ARG C 89	-26.417	8.495	-24.387	1.00	24.19	N
ANISOU 6912 NE ARG C 89	2751	2915	3524	1486	-664 -547	N
ATOM 6913 CZ ARG C 89	-25.746	8.701	-25.518	1.00	24.52	C
ANISOU 6913 CZ ARG C 89	2850	3201	3264	1641	-697 -586	C
ATOM 6914 NH1 ARG C 89	-25.484	9.939	-25.935	1.00	22.97	N
ANISOU 6914 NH1 ARG C 89	2639	3223	2864	1662	-612 -498	N
ATOM 6915 NH2 ARG C 89	-25.346	7.663	-26.241	1.00	25.33	N
ANISOU 6915 NH2 ARG C 89	3034	3329	3262	1791	-821 -706	N
ATOM 6916 H ARG C 89	-25.007	7.601	-19.153	1.00	33.64	H

ATOM	6917	HA	ARG C 89	-23.865	9.319	-20.932	1.00	30.65	H
ATOM	6918	HB2	ARG C 89	-25.819	8.055	-21.758	1.00	30.05	H
ATOM	6919	HB3	ARG C 89	-26.652	9.040	-20.838	1.00	30.05	H
ATOM	6920	HG2	ARG C 89	-26.123	10.822	-22.126	1.00	29.25	H
ATOM	6921	HG3	ARG C 89	-25.013	9.994	-22.915	1.00	29.25	H
ATOM	6922	HD2	ARG C 89	-27.711	9.231	-23.070	1.00	28.58	H
ATOM	6923	HD3	ARG C 89	-27.129	10.324	-24.071	1.00	28.58	H
ATOM	6924	HE	ARG C 89	-26.566	7.681	-24.152	1.00	29.03	H
ATOM	6925	HH11	ARG C 89	-25.745	10.613	-25.470	1.00	27.56	H
ATOM	6926	HH12	ARG C 89	-25.050	10.063	-26.667	1.00	27.56	H
ATOM	6927	HH21	ARG C 89	-25.514	6.863	-25.974	1.00	30.40	H
ATOM	6928	HH22	ARG C 89	-24.910	7.790	-26.971	1.00	30.40	H
ATOM	6929	N	TRP C 90	-23.868	10.939	-19.085	1.00	23.23	N
ANISOU	6929	N	TRP C 90	2704	3081	3043	726	51 254	N
ATOM	6930	CA	TRP C 90	-23.928	11.912	-18.009	1.00	22.68	C
ANISOU	6930	CA	TRP C 90	2723	2975	2921	570	138 366	C
ATOM	6931	C	TRP C 90	-24.744	13.118	-18.457	1.00	22.74	C
ANISOU	6931	C	TRP C 90	2750	2953	2937	512	134 336	C
ATOM	6932	O	TRP C 90	-24.618	13.581	-19.592	1.00	22.57	O
ANISOU	6932	O	TRP C 90	2682	3045	2847	552	60 304	O
ATOM	6933	CB	TRP C 90	-22.508	12.310	-17.597	1.00	23.29	C
ANISOU	6933	CB	TRP C 90	2814	3234	2801	521	111 492	C
ATOM	6934	CG	TRP C 90	-21.635	11.077	-17.341	1.00	24.53	C
ANISOU	6934	CG	TRP C 90	2935	3448	2937	625	90 500	C
ATOM	6935	CD1	TRP C 90	-20.715	10.527	-18.195	1.00	26.33	C
ANISOU	6935	CD1	TRP C 90	3049	3879	3075	764	26 482	C
ATOM	6936	CD2	TRP C 90	-21.639	10.244	-16.173	1.00	24.74	C
ANISOU	6936	CD2	TRP C 90	3053	3331	3018	631	131 529	C
ATOM	6937	NE1	TRP C 90	-20.141	9.415	-17.624	1.00	26.81	N
ANISOU	6937	NE1	TRP C 90	3128	3918	3143	858	3 477	N
ATOM	6938	CE2	TRP C 90	-20.691	9.217	-16.386	1.00	25.58	C
ANISOU	6938	CE2	TRP C 90	3104	3537	3079	765	61 514	C
ATOM	6939	CE3	TRP C 90	-22.346	10.267	-14.967	1.00	24.02	C
ANISOU	6939	CE3	TRP C 90	3091	3050	2984	562	231 580	C
ATOM	6940	CZ2	TRP C 90	-20.435	8.226	-15.435	1.00	25.75	C
ANISOU	6940	CZ2	TRP C 90	3213	3442	3130	810	62 544	C
ATOM	6941	CZ3	TRP C 90	-22.087	9.291	-14.030	1.00	25.12	C
ANISOU	6941	CZ3	TRP C 90	3312	3097	3136	606	260 635	C
ATOM	6942	CH2	TRP C 90	-21.142	8.280	-14.269	1.00	26.24	C
ANISOU	6942	CH2	TRP C 90	3412	3307	3251	717	163 615	C
ATOM	6943	H	TRP C 90	-23.131	10.952	-19.529	1.00	27.88	H
ATOM	6944	HA	TRP C 90	-24.368	11.515	-17.241	1.00	27.22	H
ATOM	6945	HB2	TRP C 90	-22.101	12.829	-18.308	1.00	27.95	H
ATOM	6946	HB3	TRP C 90	-22.545	12.831	-16.780	1.00	27.95	H
ATOM	6947	HD1	TRP C 90	-20.507	10.860	-19.038	1.00	31.59	H
ATOM	6948	HE1	TRP C 90	-19.538	8.922	-17.988	1.00	32.18	H
ATOM	6949	HE3	TRP C 90	-22.976	10.930	-14.799	1.00	28.82	H
ATOM	6950	HZ2	TRP C 90	-19.805	7.559	-15.588	1.00	30.90	H
ATOM	6951	HZ3	TRP C 90	-22.554	9.296	-13.225	1.00	30.15	H
ATOM	6952	HH2	TRP C 90	-20.991	7.636	-13.616	1.00	31.49	H
ATOM	6953	N	THR C 91	-25.613	13.597	-17.573	1.00	22.28	N
ANISOU	6953	N	THR C 91	2770	2749	2949	449	217 348	N
ATOM	6954	CA	THR C 91	-26.550	14.655	-17.924	1.00	21.18	C

ANISOU 6954	CA THR C 91	2656	2552	2840	431	204	294	C
ATOM 6955	C THR C 91	-27.144	15.226	-16.645	1.00	20.19		C
ANISOU 6955	C THR C 91	2648	2320	2702	403	310	336	C
ATOM 6956	O THR C 91	-27.346	14.499	-15.669	1.00	20.25		O
ANISOU 6956	O THR C 91	2669	2262	2765	422	434	386	O
ATOM 6957	CB THR C 91	-27.645	14.110	-18.853	1.00	23.29		C
ANISOU 6957	CB THR C 91	2800	2730	3318	512	172	161	C
ATOM 6958	OG1 THR C 91	-28.491	15.170	-19.305	1.00	23.96		O
ANISOU 6958	OG1 THR C 91	2907	2776	3420	517	134	98	O
ATOM 6959	CG2 THR C 91	-28.481	13.055	-18.142	1.00	24.62		C
ANISOU 6959	CG2 THR C 91	2892	2736	3725	518	273	160	C
ATOM 6960	H THR C 91	-25.679	13.324	-16.760	1.00	26.74		H
ATOM 6961	HA THR C 91	-26.078	15.364	-18.388	1.00	25.42		H
ATOM 6962	HB THR C 91	-27.226	13.691	-19.621	1.00	27.95		H
ATOM 6963	HG1 THR C 91	-29.087	14.866	-19.812	1.00	28.75		H
ATOM 6964	HG21 THR C 91	-29.168	12.720	-18.739	1.00	29.54		H
ATOM 6965	HG22 THR C 91	-27.917	12.317	-17.864	1.00	29.54		H
ATOM 6966	HG23 THR C 91	-28.904	13.441	-17.359	1.00	29.54		H
ATOM 6967	N GLY C 92	-27.420	16.536	-16.657	1.00	17.71		N
ANISOU 6967	N GLY C 92	2440	1989	2299	384	255	321	N
ATOM 6968	CA GLY C 92	-28.004	17.214	-15.523	1.00	18.73		C
ANISOU 6968	CA GLY C 92	2717	2032	2370	423	330	330	C
ATOM 6969	C GLY C 92	-27.447	18.617	-15.386	1.00	18.86		C
ANISOU 6969	C GLY C 92	2927	2039	2200	376	164	349	C
ATOM 6970	O GLY C 92	-26.818	19.154	-16.298	1.00	18.25		O
ANISOU 6970	O GLY C 92	2834	2017	2082	286	12	376	O
ATOM 6971	H GLY C 92	-27.272	17.052	-17.329	1.00	21.25		H
ATOM 6972	HA2 GLY C 92	-28.966	17.270	-15.633	1.00	22.48		H
ATOM 6973	HA3 GLY C 92	-27.811	16.721	-14.710	1.00	22.48		H
ATOM 6974	N THR C 93	-27.710	19.230	-14.234	1.00	20.19		N
ANISOU 6974	N THR C 93	3290	2128	2251	449	184	344	N
ATOM 6975	CA THR C 93	-27.140	20.540	-13.941	1.00	21.23		C
ANISOU 6975	CA THR C 93	3652	2194	2219	410	-36	352	C
ATOM 6976	C THR C 93	-25.619	20.458	-13.985	1.00	21.10		C
ANISOU 6976	C THR C 93	3633	2243	2140	250	-189	469	C
ATOM 6977	O THR C 93	-25.021	19.552	-13.400	1.00	21.88		O
ANISOU 6977	O THR C 93	3694	2400	2219	252	-114	523	O
ATOM 6978	CB THR C 93	-27.617	21.031	-12.565	1.00	22.15		C
ANISOU 6978	CB THR C 93	4014	2217	2185	581	0	306	C
ATOM 6979	OG1 THR C 93	-29.029	21.258	-12.607	1.00	22.26		O
ANISOU 6979	OG1 THR C 93	3995	2205	2259	745	141	212	O
ATOM 6980	CG2 THR C 93	-26.907	22.321	-12.160	1.00	22.78		C
ANISOU 6980	CG2 THR C 93	4376	2178	2102	547	-305	297	C
ATOM 6981	H THR C 93	-28.210	18.911	-13.611	1.00	24.22		H
ATOM 6982	HA THR C 93	-27.433	21.176	-14.612	1.00	25.47		H
ATOM 6983	HB THR C 93	-27.422	20.354	-11.899	1.00	26.58		H
ATOM 6984	HG1 THR C 93	-29.299	21.527	-11.859	1.00	26.71		H
ATOM 6985	HG21 THR C 93	-27.222	22.613	-11.290	1.00	27.34		H
ATOM 6986	HG22 THR C 93	-25.949	22.172	-12.115	1.00	27.34		H
ATOM 6987	HG23 THR C 93	-27.087	23.017	-12.810	1.00	27.34		H
ATOM 6988	N TYR C 94	-25.001	21.409	-14.685	1.00	21.23		N
ANISOU 6988	N TYR C 94	3675	2251	2139	110	-406	528	N
ATOM 6989	CA TYR C 94	-23.576	21.391	-14.995	1.00	21.27		C

ANISOU 6989	CA TYR C 94	3587	2361	2133	-67	-542	681	C
ATOM 6990	C TYR C 94	-22.926	22.684	-14.510	1.00	23.37		C
ANISOU 6990	C TYR C 94	4058	2485	2337	-189	-842	748	C
ATOM 6991	O TYR C 94	-23.386	23.781	-14.850	1.00	22.80		O
ANISOU 6991	O TYR C 94	4119	2280	2265	-214	-989	725	O
ATOM 6992	CB TYR C 94	-23.357	21.217	-16.508	1.00	19.92		C
ANISOU 6992	CB TYR C 94	3188	2352	2030	-141	-510	753	C
ATOM 6993	CG TYR C 94	-21.927	21.447	-16.940	1.00	20.81		C
ANISOU 6993	CG TYR C 94	3173	2607	2126	-320	-638	956	C
ATOM 6994	CD1 TYR C 94	-20.914	20.598	-16.519	1.00	20.91		C
ANISOU 6994	CD1 TYR C 94	3061	2756	2129	-338	-605	1029	C
ATOM 6995	CD2 TYR C 94	-21.586	22.518	-17.752	1.00	21.90		C
ANISOU 6995	CD2 TYR C 94	3302	2750	2270	-471	-792	1099	C
ATOM 6996	CE1 TYR C 94	-19.604	20.803	-16.904	1.00	22.14		C
ANISOU 6996	CE1 TYR C 94	3045	3076	2290	-494	-710	1235	C
ATOM 6997	CE2 TYR C 94	-20.279	22.731	-18.140	1.00	23.25		C
ANISOU 6997	CE2 TYR C 94	3304	3077	2453	-651	-885	1338	C
ATOM 6998	CZ TYR C 94	-19.288	21.870	-17.709	1.00	23.40		C
ANISOU 6998	CZ TYR C 94	3161	3257	2472	-659	-838	1403	C
ATOM 6999	OH TYR C 94	-17.975	22.065	-18.084	1.00	25.13		O
ANISOU 6999	OH TYR C 94	3158	3667	2723	-829	-917	1659	O
ATOM 7000	H TYR C 94	-25.404	22.099	-15.002	1.00	25.47		H
ATOM 7001	HA TYR C 94	-23.155	20.646	-14.538	1.00	25.52		H
ATOM 7002	HB2 TYR C 94	-23.602	20.312	-16.759	1.00	23.91		H
ATOM 7003	HB3 TYR C 94	-23.916	21.853	-16.981	1.00	23.91		H
ATOM 7004	HD1 TYR C 94	-21.122	19.875	-15.972	1.00	25.10		H
ATOM 7005	HD2 TYR C 94	-22.250	23.101	-18.043	1.00	26.28		H
ATOM 7006	HE1 TYR C 94	-18.936	20.224	-16.614	1.00	26.57		H
ATOM 7007	HE2 TYR C 94	-20.066	23.453	-18.686	1.00	27.90		H
ATOM 7008	HH TYR C 94	-17.914	22.746	-18.573	1.00	30.16		H
ATOM 7009	N LYS C 95	-21.847	22.557	-13.727	1.00	25.38		N
ANISOU 7009	N LYS C 95	4345	2744	2555	-264	-970	828	N
ATOM 7010	CA LYS C 95	-21.240	23.703	-13.052	1.00	29.57		C
ANISOU 7010	CA LYS C 95	5101	3086	3050	-366	-1314	869	C
ATOM 7011	C LYS C 95	-19.854	24.085	-13.557	1.00	32.95		C
ANISOU 7011	C LYS C 95	5350	3586	3585	-642	-1533	1094	C
ATOM 7012	O LYS C 95	-19.463	25.242	-13.404	1.00	34.91		O
ANISOU 7012	O LYS C 95	5699	3660	3905	-783	-1805	1114	O
ATOM 7013	CB LYS C 95	-21.148	23.435	-11.544	1.00	31.89		C
ANISOU 7013	CB LYS C 95	5629	3276	3211	-207	-1363	768	C
ATOM 7014	CG LYS C 95	-22.499	23.222	-10.870	1.00	32.11		C
ANISOU 7014	CG LYS C 95	5847	3239	3114	80	-1146	589	C
ATOM 7015	CD LYS C 95	-23.335	24.487	-10.862	1.00	33.33		C
ANISOU 7015	CD LYS C 95	6248	3199	3215	168	-1304	478	C
ATOM 7016	H LYS C 95	-21.447	21.811	-13.572	1.00	30.46		H
ATOM 7017	HA LYS C 95	-21.817	24.473	-13.177	1.00	35.49		H
ATOM 7018	HB2 LYS C 95	-20.617	22.636	-11.401	1.00	38.27		H
ATOM 7019	HB3 LYS C 95	-20.721	24.194	-11.118	1.00	38.27		H
ATOM 7020	HG2 LYS C 95	-22.991	22.537	-11.350	1.00	38.53		H
ATOM 7021	HG3 LYS C 95	-22.356	22.948	-9.950	1.00	38.53		H
ATOM 7022	N GLY C 96	-19.090	23.159	-14.125	1.00	34.91		N
ANISOU 7022	N GLY C 96	5285	4094	3883	-705	-1380	1221	N
ATOM 7023	CA GLY C 96	-17.772	23.497	-14.638	1.00	36.94		C

ANISOU 7023	CA	GLY C 96	5303	4477	4255	-950	-1533	1461	C
ATOM 7024	C	GLY C 96	-16.877	22.269	-14.677	1.00	35.69		C
ANISOU 7024	C	GLY C 96	4871	4593	4095	-918	-1388	1546	C
ATOM 7025	O	GLY C 96	-17.357	21.138	-14.702	1.00	33.80		O
ANISOU 7025	O	GLY C 96	4591	4462	3791	-719	-1128	1415	O
ATOM 7026	H	GLY C 96	-19.310	22.334	-14.224	1.00	41.89		H
ATOM 7027	HA2	GLY C 96	-17.851	23.855	-15.536	1.00	44.33		H
ATOM 7028	HA3	GLY C 96	-17.360	24.166	-14.070	1.00	44.33		H
ATOM 7029	N	THR C 97	-15.568	22.523	-14.675	1.00	35.45		N
ANISOU 7029	N	THR C 97	4640	4662	4169	-1114	-1567	1753	N
ATOM 7030	CA	THR C 97	-14.577	21.459	-14.739	1.00	33.33		C
ANISOU 7030	CA	THR C 97	4079	4678	3907	-1075	-1461	1848	C
ATOM 7031	C	THR C 97	-13.538	21.626	-13.640	1.00	35.09		C
ANISOU 7031	C	THR C 97	4319	4806	4206	-1176	-1746	1891	C
ATOM 7032	O	THR C 97	-13.360	22.710	-13.080	1.00	38.05		O
ANISOU 7032	O	THR C 97	4863	4916	4677	-1334	-2036	1891	O
ATOM 7033	CB	THR C 97	-13.863	21.432	-16.096	1.00	32.76		C
ANISOU 7033	CB	THR C 97	3617	4941	3890	-1177	-1334	2106	C
ATOM 7034	OG1	THR C 97	-13.116	22.641	-16.271	1.00	35.30		O
ANISOU 7034	OG1	THR C 97	3833	5208	4371	-1482	-1587	2365	O
ATOM 7035	CG2	THR C 97	-14.872	21.282	-17.217	1.00	30.04		C
ANISOU 7035	CG2	THR C 97	3285	4674	3454	-1044	-1081	2034	C
ATOM 7036	H	THR C 97	-15.230	23.312	-14.636	1.00	42.54		H
ATOM 7037	HA	THR C 97	-15.018	20.604	-14.612	1.00	40.00		H
ATOM 7038	HB	THR C 97	-13.259	20.674	-16.126	1.00	39.31		H
ATOM 7039	HG1	THR C 97	-13.631	23.303	-16.245	1.00	42.36		H
ATOM 7040	HG21	THR C 97	-14.416	21.265	-18.073	1.00	36.04		H
ATOM 7041	HG22	THR C 97	-15.368	20.455	-17.108	1.00	36.04		H
ATOM 7042	HG23	THR C 97	-15.494	22.026	-17.205	1.00	36.04		H
ATOM 7043	N	VAL C 98	-12.845	20.526	-13.344	1.00	33.14		N
ANISOU 7043	N	VAL C 98	3905	4758	3928	-1063	-1669	1895	N
ATOM 7044	CA	VAL C 98	-11.686	20.537	-12.460	1.00	34.53		C
ANISOU 7044	CA	VAL C 98	4021	4899	4201	-1141	-1907	1934	C
ATOM 7045	C	VAL C 98	-10.664	19.540	-12.990	1.00	34.76		C
ANISOU 7045	C	VAL C 98	3643	5305	4258	-1087	-1759	2071	C
ATOM 7046	O	VAL C 98	-11.021	18.470	-13.498	1.00	32.92		O
ANISOU 7046	O	VAL C 98	3326	5280	3902	-871	-1488	2008	O
ATOM 7047	CB	VAL C 98	-12.074	20.215	-11.003	1.00	32.91		C
ANISOU 7047	CB	VAL C 98	4201	4435	3868	-952	-2009	1685	C
ATOM 7048	CG1	VAL C 98	-12.860	18.918	-10.926	1.00	30.84		C
ANISOU 7048	CG1	VAL C 98	4028	4266	3425	-677	-1713	1551	C
ATOM 7049	CG2	VAL C 98	-10.829	20.145	-10.104	1.00	36.30		C
ANISOU 7049	CG2	VAL C 98	4575	4832	4387	-996	-2261	1705	C
ATOM 7050	H	VAL C 98	-13.034	19.745	-13.651	1.00	39.77		H
ATOM 7051	HA	VAL C 98	-11.283	21.419	-12.477	1.00	41.44		H
ATOM 7052	HB	VAL C 98	-12.642	20.926	-10.667	1.00	39.49		H
ATOM 7053	HG11	VAL C 98	-13.089	18.743	-9.999	1.00	37.01		H
ATOM 7054	HG12	VAL C 98	-13.667	19.007	-11.456	1.00	37.01		H
ATOM 7055	HG13	VAL C 98	-12.313	18.197	-11.274	1.00	37.01		H
ATOM 7056	HG21	VAL C 98	-11.106	19.942	-9.197	1.00	43.56		H
ATOM 7057	HG22	VAL C 98	-10.241	19.448	-10.435	1.00	43.56		H
ATOM 7058	HG23	VAL C 98	-10.375	21.002	-10.128	1.00	43.56		H
ATOM 7059	N	LYS C 99	-9.396	19.915	-12.906	1.00	37.38		N

ANISOU 7059	N	LYS C 99	3727	5711	4766	-1268	-1930	2249	N
ATOM 7060	CA	LYS C 99	-8.292	19.030	-13.235	1.00	39.30		C
ANISOU 7060	CA	LYS C 99	3598	6295	5039	-1187	-1804	2357	C
ATOM 7061	C	LYS C 99	-7.725	18.469	-11.944	1.00	39.85		C
ANISOU 7061	C	LYS C 99	3799	6241	5104	-1074	-1990	2202	C
ATOM 7062	O	LYS C 99	-7.554	19.198	-10.962	1.00	41.97		O
ANISOU 7062	O	LYS C 99	4292	6204	5451	-1188	-2294	2144	O
ATOM 7063	CB	LYS C 99	-7.201	19.772	-14.013	1.00	43.04		C
ANISOU 7063	CB	LYS C 99	3698	6951	5703	-1437	-1827	2690	C
ATOM 7064	H	LYS C 99	-9.145	20.698	-12.654	1.00	44.86		H
ATOM 7065	HA	LYS C 99	-8.615	18.294	-13.778	1.00	47.16		H
ATOM 7066	N	SER C 100	-7.437	17.169	-11.943	1.00	38.31		N
ANISOU 7066	N	SER C 100	3491	6264	4803	-823	-1823	2120	N
ATOM 7067	CA	SER C 100	-6.939	16.547	-10.725	1.00	38.96		C
ANISOU 7067	CA	SER C 100	3720	6233	4851	-683	-1999	1972	C
ATOM 7068	C	SER C 100	-6.420	15.144	-11.008	1.00	39.06		C
ANISOU 7068	C	SER C 100	3526	6533	4782	-421	-1810	1932	C
ATOM 7069	O	SER C 100	-7.062	14.366	-11.724	1.00	36.76		O
ANISOU 7069	O	SER C 100	3218	6383	4364	-239	-1542	1878	O
ATOM 7070	CB	SER C 100	-8.041	16.519	-9.664	1.00	36.99		C
ANISOU 7070	CB	SER C 100	3974	5645	4435	-561	-2077	1753	C
ATOM 7071	OG	SER C 100	-7.639	15.779	-8.529	1.00	37.81		O
ANISOU 7071	OG	SER C 100	4250	5663	4451	-375	-2201	1620	O
ATOM 7072	H	SER C 100	-7.519	16.640	-12.615	1.00	45.98		H
ATOM 7073	HA	SER C 100	-6.203	17.075	-10.378	1.00	46.75		H
ATOM 7074	HB2	SER C 100	-8.239	17.429	-9.392	1.00	44.38		H
ATOM 7075	HB3	SER C 100	-8.833	16.107	-10.044	1.00	44.38		H
ATOM 7076	HG	SER C 100	-7.465	14.988	-8.749	1.00	45.37		H
ATOM 7077	N	ASP C 101	-5.248	14.830	-10.461	1.00	41.29		N
ANISOU 7077	N	ASP C 101	3662	6883	5144	-387	-1969	1942	N
ATOM 7078	CA	ASP C 101	-4.632	13.521	-10.633	1.00	41.71		C
ANISOU 7078	CA	ASP C 101	3543	7178	5126	-118	-1838	1881	C
ATOM 7079	C	ASP C 101	-4.556	13.131	-12.110	1.00	41.60		C
ANISOU 7079	C	ASP C 101	3215	7510	5079	-35	-1506	1980	C
ATOM 7080	O	ASP C 101	-4.914	12.022	-12.508	1.00	40.16		O
ANISOU 7080	O	ASP C 101	3077	7432	4752	238	-1309	1851	O
ATOM 7081	CB	ASP C 101	-5.390	12.472	-9.820	1.00	39.68		C
ANISOU 7081	CB	ASP C 101	3658	6743	4675	150	-1829	1666	C
ATOM 7082	CG	ASP C 101	-5.589	12.898	-8.381	1.00	39.75		C
ANISOU 7082	CG	ASP C 101	4049	6414	4642	114	-2112	1569	C
ATOM 7083	OD1	ASP C 101	-4.661	12.694	-7.571	1.00	42.17		O
ANISOU 7083	OD1	ASP C 101	4348	6696	4980	174	-2333	1528	O
ATOM 7084	OD2	ASP C 101	-6.662	13.458	-8.065	1.00	38.05		O
ANISOU 7084	OD2	ASP C 101	4152	5960	4347	50	-2107	1521	O
ATOM 7085	H	ASP C 101	-4.784	15.369	-9.978	1.00	49.55		H
ATOM 7086	HA	ASP C 101	-3.725	13.558	-10.292	1.00	50.05		H
ATOM 7087	HB2	ASP C 101	-6.263	12.333	-10.217	1.00	47.61		H
ATOM 7088	HB3	ASP C 101	-4.886	11.644	-9.823	1.00	47.61		H
ATOM 7089	N	GLY C 102	-4.081	14.067	-12.932	1.00	43.65		N
ANISOU 7089	N	GLY C 102	3191	7931	5463	-263	-1453	2217	N
ATOM 7090	CA	GLY C 102	-3.813	13.806	-14.334	1.00	44.43		C
ANISOU 7090	CA	GLY C 102	3001	8391	5490	-167	-1144	2348	C
ATOM 7091	C	GLY C 102	-5.023	13.743	-15.243	1.00	41.76		C

ANISOU 7091	C	GLY C 102	2793	8074	5000	-82	-909	2296	C
ATOM 7092	O	GLY C 102	-4.849	13.607	-16.463	1.00	42.58		O
ANISOU 7092	O	GLY C 102	2706	8470	5003	19	-665	2402	O
ATOM 7093	H	GLY C 102	-3.905	14.874	-12.691	1.00	52.38		H
ATOM 7094	HA2	GLY C 102	-3.226	14.500	-14.673	1.00	53.32		H
ATOM 7095	HA3	GLY C 102	-3.345	12.959	-14.408	1.00	53.32		H
ATOM 7096	N	GLY C 103	-6.244	13.826	-14.703	1.00	38.54		N
ANISOU 7096	N	GLY C 103	2721	7371	4552	-94	-979	2136	N
ATOM 7097	CA	GLY C 103	-7.445	13.856	-15.508	1.00	37.52		C
ANISOU 7097	CA	GLY C 103	2715	7228	4314	-31	-796	2080	C
ATOM 7098	C	GLY C 103	-8.195	15.173	-15.353	1.00	37.30		C
ANISOU 7098	C	GLY C 103	2840	6965	4367	-319	-926	2166	C
ATOM 7099	O	GLY C 103	-7.886	15.999	-14.485	1.00	38.36		O
ANISOU 7099	O	GLY C 103	3058	6887	4630	-547	-1183	2225	O
ATOM 7100	H	GLY C 103	-6.394	13.866	-13.857	1.00	46.25		H
ATOM 7101	HA2	GLY C 103	-7.214	13.739	-16.443	1.00	45.03		H
ATOM 7102	HA3	GLY C 103	-8.033	13.132	-15.242	1.00	45.03		H
ATOM 7103	N	THR C 104	-9.185	15.365	-16.224	1.00	35.39		N
ANISOU 7103	N	THR C 104	2661	6741	4044	-284	-770	2151	N
ATOM 7104	CA	THR C 104	-10.097	16.498	-16.158	1.00	34.15		C
ANISOU 7104	CA	THR C 104	2709	6337	3928	-498	-878	2186	C
ATOM 7105	C	THR C 104	-11.512	15.982	-15.923	1.00	30.76		C
ANISOU 7105	C	THR C 104	2647	5643	3398	-328	-759	1898	C
ATOM 7106	O	THR C 104	-11.939	15.010	-16.557	1.00	29.26		O
ANISOU 7106	O	THR C 104	2441	5564	3113	-87	-559	1771	O
ATOM 7107	CB	THR C 104	-10.054	17.334	-17.445	1.00	35.86		C
ANISOU 7107	CB	THR C 104	2713	6751	4162	-629	-772	2417	C
ATOM 7108	OG1	THR C 104	-8.715	17.782	-17.692	1.00	38.42		O
ANISOU 7108	OG1	THR C 104	2721	7279	4599	-796	-800	2691	O
ATOM 7109	CG2	THR C 104	-10.957	18.543	-17.327	1.00	35.52		C
ANISOU 7109	CG2	THR C 104	2938	6383	4175	-848	-900	2414	C
ATOM 7110	H	THR C 104	-9.351	14.834	-16.880	1.00	42.47		H
ATOM 7111	HA	THR C 104	-9.851	17.069	-15.413	1.00	40.98		H
ATOM 7112	HB	THR C 104	-10.358	16.794	-18.192	1.00	43.04		H
ATOM 7113	HG1	THR C 104	-8.691	18.239	-18.397	1.00	46.11		H
ATOM 7114	HG21	THR C 104	-10.922	19.064	-18.144	1.00	42.62		H
ATOM 7115	HG22	THR C 104	-11.872	18.260	-17.172	1.00	42.62		H
ATOM 7116	HG23	THR C 104	-10.670	19.100	-16.586	1.00	42.62		H
ATOM 7117	N	TYR C 105	-12.245	16.637	-15.024	1.00	28.51		N
ANISOU 7117	N	TYR C 105	2686	5007	3139	-442	-894	1798	N
ATOM 7118	CA	TYR C 105	-13.537	16.140	-14.553	1.00	26.82		C
ANISOU 7118	CA	TYR C 105	2794	4544	2853	-290	-781	1556	C
ATOM 7119	C	TYR C 105	-14.617	17.193	-14.757	1.00	26.62		C
ANISOU 7119	C	TYR C 105	2965	4310	2841	-399	-790	1518	C
ATOM 7120	O	TYR C 105	-14.420	18.356	-14.398	1.00	27.23		O
ANISOU 7120	O	TYR C 105	3126	4248	2970	-593	-1002	1607	O
ATOM 7121	CB	TYR C 105	-13.480	15.774	-13.067	1.00	26.23		C
ANISOU 7121	CB	TYR C 105	2964	4258	2742	-230	-901	1450	C
ATOM 7122	CG	TYR C 105	-12.555	14.637	-12.683	1.00	27.02		C
ANISOU 7122	CG	TYR C 105	2942	4505	2817	-84	-911	1447	C
ATOM 7123	CD1	TYR C 105	-11.178	14.815	-12.633	1.00	29.57		C
ANISOU 7123	CD1	TYR C 105	3010	5020	3204	-171	-1086	1604	C
ATOM 7124	CD2	TYR C 105	-13.065	13.398	-12.320	1.00	25.98		C

ANISOU 7124	CD2 TYR C 105	2951	4301	2618	135	-769	1300	C
ATOM 7125	CE1 TYR C 105	-10.332	13.785	-12.262	1.00	30.34		C
ANISOU 7125	CE1 TYR C 105	2998	5254	3275	-9	-1113	1588	C
ATOM 7126	CE2 TYR C 105	-12.224	12.354	-11.941	1.00	26.82		C
ANISOU 7126	CE2 TYR C 105	2982	4513	2695	287	-807	1290	C
ATOM 7127	CZ TYR C 105	-10.858	12.555	-11.915	1.00	29.06		C
ANISOU 7127	CZ TYR C 105	3018	5005	3020	231	-979	1420	C
ATOM 7128	OH TYR C 105	-10.010	11.531	-11.541	1.00	30.57		O
ANISOU 7128	OH TYR C 105	3128	5309	3179	408	-1033	1399	O
ATOM 7129	H TYR C 105	-12.012	17.384	-14.667	1.00	34.21		H
ATOM 7130	HA TYR C 105	-13.781	15.347	-15.056	1.00	32.19		H
ATOM 7131	HB2 TYR C 105	-13.191	16.558	-12.573	1.00	31.47		H
ATOM 7132	HB3 TYR C 105	-14.373	15.527	-12.781	1.00	31.47		H
ATOM 7133	HD1 TYR C 105	-10.817	15.640	-12.865	1.00	35.48		H
ATOM 7134	HD2 TYR C 105	-13.984	13.261	-12.336	1.00	31.17		H
ATOM 7135	HE1 TYR C 105	-9.413	13.921	-12.243	1.00	36.41		H
ATOM 7136	HE2 TYR C 105	-12.580	11.527	-11.709	1.00	32.18		H
ATOM 7137	HH TYR C 105	-10.454	10.842	-11.357	1.00	36.69		H
ATOM 7138	N ASP C 106	-15.763	16.777	-15.304	1.00	26.74		N
ANISOU 7138	N ASP C 106	3060	4277	2823	-264	-595	1378	N
ATOM 7139	CA ASP C 106	-16.946	17.630	-15.368	1.00	26.58		C
ANISOU 7139	CA ASP C 106	3245	4042	2811	-311	-593	1298	C
ATOM 7140	C ASP C 106	-17.706	17.588	-14.045	1.00	27.08		C
ANISOU 7140	C ASP C 106	3612	3839	2839	-239	-610	1152	C
ATOM 7141	O ASP C 106	-17.839	16.528	-13.426	1.00	24.81		O
ANISOU 7141	O ASP C 106	3375	3530	2523	-97	-504	1072	O
ATOM 7142	CB ASP C 106	-17.877	17.178	-16.493	1.00	25.71		C
ANISOU 7142	CB ASP C 106	3074	3994	2702	-183	-401	1204	C
ATOM 7143	CG ASP C 106	-17.274	17.367	-17.871	1.00	27.06		C
ANISOU 7143	CG ASP C 106	2997	4437	2849	-205	-368	1349	C
ATOM 7144	OD1 ASP C 106	-16.744	18.460	-18.140	1.00	27.88		O
ANISOU 7144	OD1 ASP C 106	3042	4582	2970	-396	-486	1536	O
ATOM 7145	OD2 ASP C 106	-17.331	16.417	-18.686	1.00	27.11		O
ANISOU 7145	OD2 ASP C 106	2879	4610	2813	-18	-233	1285	O
ATOM 7146	H ASP C 106	-15.878	15.998	-15.648	1.00	32.09		H
ATOM 7147	HA ASP C 106	-16.676	18.546	-15.539	1.00	31.89		H
ATOM 7148	HB2 ASP C 106	-18.074	16.235	-16.379	1.00	30.86		H
ATOM 7149	HB3 ASP C 106	-18.697	17.695	-16.451	1.00	30.86		H
ATOM 7150	N ILE C 107	-18.245	18.736	-13.635	1.00	26.85		N
ANISOU 7150	N ILE C 107	3798	3608	2796	-313	-736	1126	N
ATOM 7151	CA ILE C 107	-18.936	18.870	-12.355	1.00	27.13		C
ANISOU 7151	CA ILE C 107	4141	3420	2748	-203	-754	1001	C
ATOM 7152	C ILE C 107	-20.437	18.935	-12.604	1.00	25.09		C
ANISOU 7152	C ILE C 107	3974	3066	2494	-89	-568	875	C
ATOM 7153	O ILE C 107	-20.911	19.816	-13.331	1.00	24.77		O
ANISOU 7153	O ILE C 107	3936	2984	2490	-153	-620	870	O
ATOM 7154	CB ILE C 107	-18.466	20.121	-11.597	1.00	30.16		C
ANISOU 7154	CB ILE C 107	4738	3629	3093	-307	-1075	1031	C
ATOM 7155	CG1 ILE C 107	-16.974	20.023	-11.265	1.00	32.20		C
ANISOU 7155	CG1 ILE C 107	4876	3970	3390	-430	-1292	1160	C
ATOM 7156	CG2 ILE C 107	-19.299	20.322	-10.316	1.00	30.55		C
ANISOU 7156	CG2 ILE C 107	5148	3468	2994	-114	-1077	880	C
ATOM 7157	CD1 ILE C 107	-16.379	21.322	-10.726	1.00	35.18		C

ANISOU 7157	CD1 ILE C 107	5409	4153	3804	-586	-1680	1205	C
ATOM 7158	H ILE C 107	-18.222	19.465	-14.091	1.00	32.22		H
ATOM 7159	HA ILE C 107	-18.750	18.092	-11.806	1.00	32.56		H
ATOM 7160	HB ILE C 107	-18.600	20.892	-12.170	1.00	36.19		H
ATOM 7161	HG12 ILE C 107	-16.848	19.337	-10.590	1.00	38.65		H
ATOM 7162	HG13 ILE C 107	-16.489	19.785	-12.070	1.00	38.65		H
ATOM 7163	HG21 ILE C 107	-18.984	21.116	-9.856	1.00	36.66		H
ATOM 7164	HG22 ILE C 107	-20.232	20.429	-10.560	1.00	36.66		H
ATOM 7165	HG23 ILE C 107	-19.193	19.545	-9.745	1.00	36.66		H
ATOM 7166	HD11 ILE C 107	-15.437	21.184	-10.540	1.00	42.21		H
ATOM 7167	HD12 ILE C 107	-16.486	22.018	-11.393	1.00	42.21		H
ATOM 7168	HD13 ILE C 107	-16.845	21.569	-9.912	1.00	42.21		H
ATOM 7169	N TYR C 108	-21.194	18.040	-11.959	1.00	22.50		N
ANISOU 7169	N TYR C 108	3718	2693	2139	77	-364	792	N
ATOM 7170	CA TYR C 108	-22.647	18.035	-12.065	1.00	21.72		C
ANISOU 7170	CA TYR C 108	3661	2513	2078	188	-179	695	C
ATOM 7171	C TYR C 108	-23.303	18.049	-10.693	1.00	23.16		C
ANISOU 7171	C TYR C 108	4088	2574	2136	353	-89	649	C
ATOM 7172	O TYR C 108	-22.715	17.656	-9.680	1.00	22.60		O
ANISOU 7172	O TYR C 108	4147	2488	1950	413	-116	686	O
ATOM 7173	CB TYR C 108	-23.179	16.803	-12.813	1.00	20.37		C
ANISOU 7173	CB TYR C 108	3270	2420	2050	235	30	672	C
ATOM 7174	CG TYR C 108	-22.619	16.597	-14.195	1.00	19.12		C
ANISOU 7174	CG TYR C 108	2886	2411	1966	158	-23	697	C
ATOM 7175	CD1 TYR C 108	-23.146	17.270	-15.288	1.00	19.35		C
ANISOU 7175	CD1 TYR C 108	2852	2455	2046	125	-53	662	C
ATOM 7176	CD2 TYR C 108	-21.576	15.707	-14.413	1.00	19.45		C
ANISOU 7176	CD2 TYR C 108	2790	2595	2004	159	-38	755	C
ATOM 7177	CE1 TYR C 108	-22.641	17.076	-16.553	1.00	18.32		C
ANISOU 7177	CE1 TYR C 108	2540	2488	1934	102	-82	698	C
ATOM 7178	CE2 TYR C 108	-21.065	15.507	-15.675	1.00	18.75		C
ANISOU 7178	CE2 TYR C 108	2502	2683	1937	149	-62	781	C
ATOM 7179	CZ TYR C 108	-21.601	16.197	-16.738	1.00	18.29		C
ANISOU 7179	CZ TYR C 108	2398	2647	1904	125	-76	759	C
ATOM 7180	OH TYR C 108	-21.107	16.002	-17.997	1.00	18.52		O
ANISOU 7180	OH TYR C 108	2253	2875	1909	159	-82	795	O
ATOM 7181	H TYR C 108	-20.881	17.422	-11.449	1.00	27.00		H
ATOM 7182	HA TYR C 108	-22.933	18.828	-12.546	1.00	26.06		H
ATOM 7183	HB2 TYR C 108	-22.968	16.012	-12.292	1.00	24.44		H
ATOM 7184	HB3 TYR C 108	-24.142	16.887	-12.898	1.00	24.44		H
ATOM 7185	HD1 TYR C 108	-23.848	17.868	-15.163	1.00	23.22		H
ATOM 7186	HD2 TYR C 108	-21.212	15.244	-13.693	1.00	23.33		H
ATOM 7187	HE1 TYR C 108	-23.000	17.537	-17.277	1.00	21.99		H
ATOM 7188	HE2 TYR C 108	-20.363	14.912	-15.808	1.00	22.50		H
ATOM 7189	HH TYR C 108	-21.528	16.477	-18.548	1.00	22.23		H
ATOM 7190	N THR C 109	-24.558	18.483	-10.682	1.00	23.90		N
ANISOU 7190	N THR C 109	4239	2599	2241	456	30	575	N
ATOM 7191	CA THR C 109	-25.439	18.254	-9.551	1.00	26.35		C
ANISOU 7191	CA THR C 109	4701	2861	2450	659	227	559	C
ATOM 7192	C THR C 109	-26.722	17.635	-10.071	1.00	26.33		C
ANISOU 7192	C THR C 109	4483	2884	2636	702	490	549	C
ATOM 7193	O THR C 109	-27.258	18.060	-11.100	1.00	25.92		O
ANISOU 7193	O THR C 109	4300	2831	2717	648	454	483	O

ATOM 7194 CB THR C 109	-25.745 19.542 -8.770 1.00 29.03	C
ANISOU 7194 CB THR C 109	5349 3095 2586 805 94 477	C
ATOM 7195 OG1 THR C 109	-26.547 20.425 -9.569 1.00 29.46	O
ANISOU 7195 OG1 THR C 109	5364 3110 2721 801 52 391	O
ATOM 7196 CG2 THR C 109	-24.453 20.232 -8.379 1.00 30.33	C
ANISOU 7196 CG2 THR C 109	5713 3186 2626 724 -253 479	C
ATOM 7197 H THR C 109	-24.925 18.917 -11.328 1.00 28.67	H
ATOM 7198 HA THR C 109	-25.022 17.624 -8.943 1.00 31.62	H
ATOM 7199 HB THR C 109	-26.227 19.318 -7.959 1.00 34.84	H
ATOM 7200 HG1 THR C 109	-26.714 21.129 -9.141 1.00 35.36	H
ATOM 7201 HG21 THR C 109	-24.648 21.045 -7.886 1.00 36.40	H
ATOM 7202 HG22 THR C 109	-23.920 19.645 -7.820 1.00 36.40	H
ATOM 7203 HG23 THR C 109	-23.945 20.459 -9.173 1.00 36.40	H
ATOM 7204 N THR C 110	-27.176 16.600 -9.387 1.00 27.15	N
ANISOU 7204 N THR C 110	4543 3003 2771 788 732 632	N
ATOM 7205 CA THR C 110	-28.499 16.045 -9.583 1.00 28.08	C
ANISOU 7205 CA THR C 110	4461 3123 3087 837 984 660	C
ATOM 7206 C THR C 110	-29.128 15.931 -8.205 1.00 33.19	C
ANISOU 7206 C THR C 110	5249 3785 3578 1039 1228 758	C
ATOM 7207 O THR C 110	-28.485 16.194 -7.185 1.00 34.35	O
ANISOU 7207 O THR C 110	5670 3930 3450 1151 1178 780	O
ATOM 7208 CB THR C 110	-28.448 14.686 -10.303 1.00 26.70	C
ANISOU 7208 CB THR C 110	4028 2941 3176 708 1036 715	C
ATOM 7209 OG1 THR C 110	-27.680 13.761 -9.529 1.00 27.59	O
ANISOU 7209 OG1 THR C 110	4224 3050 3211 712 1075 827	O
ATOM 7210 CG2 THR C 110	-27.808 14.828 -11.692 1.00 24.81	C
ANISOU 7210 CG2 THR C 110	3671 2728 3028 576 810 615	C
ATOM 7211 H THR C 110	-26.720 16.189 -8.785 1.00 32.58	H
ATOM 7212 HA THR C 110	-29.032 16.656 -10.116 1.00 33.70	H
ATOM 7213 HB THR C 110	-29.350 14.344 -10.414 1.00 32.04	H
ATOM 7214 HG1 THR C 110	-28.030 13.658 -8.773 1.00 33.11	H
ATOM 7215 HG21 THR C 110	-27.782 13.965 -12.135 1.00 29.78	H
ATOM 7216 HG22 THR C 110	-28.325 15.445 -12.234 1.00 29.78	H
ATOM 7217 HG23 THR C 110	-26.903 15.166 -11.606 1.00 29.78	H
ATOM 7218 N THR C 111	-30.396 15.567 -8.164 1.00 37.06	N
ANISOU 7218 N THR C 111	5547 4298 4236 1102 1487 826	N
ATOM 7219 CA THR C 111	-31.076 15.458 -6.887 1.00 42.95	C
ANISOU 7219 CA THR C 111	6390 5106 4823 1319 1777 963	C
ATOM 7220 C THR C 111	-31.919 14.200 -6.891 1.00 46.07	C
ANISOU 7220 C THR C 111	6478 5507 5521 1244 2059 1162	C
ATOM 7221 O THR C 111	-32.483 13.816 -7.922 1.00 45.27	O
ANISOU 7221 O THR C 111	6076 5357 5769 1089 2031 1134	O
ATOM 7222 CB THR C 111	-31.940 16.694 -6.593 1.00 45.08	C
ANISOU 7222 CB THR C 111	6763 5434 4931 1553 1830 864	C
ATOM 7223 OG1 THR C 111	-32.406 16.641 -5.237 1.00 48.83	O
ANISOU 7223 OG1 THR C 111	7391 6009 5152 1830 2112 999	O
ATOM 7224 CG2 THR C 111	-33.123 16.778 -7.549 1.00 45.29	C
ANISOU 7224 CG2 THR C 111	6454 5475 5278 1499 1910 823	C
ATOM 7225 H THR C 111	-30.881 15.379 -8.850 1.00 44.47	H
ATOM 7226 HA THR C 111	-30.416 15.377 -6.181 1.00 51.54	H
ATOM 7227 HB THR C 111	-31.402 17.492 -6.712 1.00 54.09	H
ATOM 7228 HG1 THR C 111	-31.753 16.629 -4.709 1.00 58.59	H
ATOM 7229 HG21 THR C 111	-33.656 17.563 -7.348 1.00 54.35	H

ATOM 7230	HG22 THR C 111	-32.806	16.837	-8.464	1.00	54.35	H
ATOM 7231	HG23 THR C 111	-33.679	15.988	-7.458	1.00	54.35	H
ATOM 7232	N ARG C 112	-31.967	13.552	-5.735	1.00	49.71	N
ANISOU 7232	N ARG C 112	7031	6008	5849	1354	2301 1373	N
ATOM 7233	CA ARG C 112	-32.742	12.341	-5.527	1.00	52.98	C
ANISOU 7233	CA ARG C 112	7165	6395	6570	1259	2491 1581	C
ATOM 7234	C ARG C 112	-33.839	12.650	-4.521	1.00	56.48	C
ANISOU 7234	C ARG C 112	7580	6958	6923	1468	2717 1691	C
ATOM 7235	O ARG C 112	-33.567	13.215	-3.458	1.00	58.43	O
ANISOU 7235	O ARG C 112	8117	7279	6807	1701	2731 1674	O
ATOM 7236	CB ARG C 112	-31.843	11.204	-5.029	1.00	53.88	C
ANISOU 7236	CB ARG C 112	7378	6430	6665	1173	2429 1685	C
ATOM 7237	CG ARG C 112	-31.629	10.055	-6.019	1.00	52.98	C
ANISOU 7237	CG ARG C 112	7041	6170	6920	919	2330 1728	C
ATOM 7238	CD ARG C 112	-31.381	10.540	-7.437	1.00	49.74	C
ANISOU 7238	CD ARG C 112	6530	5716	6651	801	2105 1518	C
ATOM 7239	H ARG C 112	-31.542	13.806	-5.031	1.00	59.66	H
ATOM 7240	HA ARG C 112	-33.153	12.069	-6.363	1.00	63.57	H
ATOM 7241	HB2 ARG C 112	-30.970	11.572	-4.818	1.00	64.66	H
ATOM 7242	HB3 ARG C 112	-32.238	10.828	-4.227	1.00	64.66	H
ATOM 7243	HG2 ARG C 112	-30.859	9.537	-5.740	1.00	63.58	H
ATOM 7244	HG3 ARG C 112	-32.421	9.495	-6.028	1.00	63.58	H
ATOM 7245	N TYR C 113	-35.078	12.335	-4.889	1.00	70.74	N
ANISOU 7245	N TYR C 113	9081	7809	9986	866	2745 1775	N
ATOM 7246	CA TYR C 113	-36.218	12.411	-3.987	1.00	74.62	C
ANISOU 7246	CA TYR C 113	9147	8621	10584	1059	2973 2128	C
ATOM 7247	C TYR C 113	-36.951	11.081	-4.033	1.00	80.14	C
ANISOU 7247	C TYR C 113	9438	9384	11627	711	2854 2411	C
ATOM 7248	O TYR C 113	-37.178	10.527	-5.113	1.00	78.27	O
ANISOU 7248	O TYR C 113	9132	9034	11574	392	2513 2390	O
ATOM 7249	CB TYR C 113	-37.172	13.549	-4.367	1.00	75.14	C
ANISOU 7249	CB TYR C 113	9035	8884	10632	1350	2984 2225	C
ATOM 7250	H TYR C 113	-35.287	12.068	-5.679	1.00	84.89	H
ATOM 7251	HA TYR C 113	-35.905	12.560	-3.081	1.00	89.55	H
ATOM 7252	N ASN C 114	-37.323	10.569	-2.862	1.00	87.62	N
ANISOU 7252	N ASN C 114	10142	10496	12653	773	3132 2679	N
ATOM 7253	CA ASN C 114	-37.826	9.203	-2.785	1.00	93.96	C
ANISOU 7253	CA ASN C 114	10613	11313	13776	414	3050 2931	C
ATOM 7254	C ASN C 114	-36.690	8.264	-3.161	1.00	90.54	C
ANISOU 7254	C ASN C 114	10536	10562	13302	78	2866 2683	C
ATOM 7255	O ASN C 114	-36.789	7.509	-4.135	1.00	92.53	O
ANISOU 7255	O ASN C 114	10760	10659	13738	-290	2539 2656	O
ATOM 7256	CB ASN C 114	-39.030	9.000	-3.712	1.00	99.47	C
ANISOU 7256	CB ASN C 114	10871	12121	14804	205	2763 3149	C
ATOM 7257	H ASN C 114	-37.295	10.985	-2.110	1.00	105.14	H
ATOM 7258	HA ASN C 114	-38.100	9.008	-1.876	1.00	112.76	H
ATOM 7259	N ALA C 115	-35.597	8.327	-2.400	1.00	84.12	N
ANISOU 7259	N ALA C 115	10080	9642	12239	217	3067 2502	N
ATOM 7260	CA ALA C 115	-34.398	7.565	-2.683	1.00	76.49	C
ANISOU 7260	CA ALA C 115	9475	8379	11208	-30	2938 2262	C
ATOM 7261	C ALA C 115	-33.815	7.002	-1.393	1.00	69.82	C
ANISOU 7261	C ALA C 115	8724	7538	10268	43	3211 2322	C
ATOM 7262	O ALA C 115	-33.882	7.656	-0.341	1.00	72.43	O

ANISOU 7262 O ALA C 115	9060 8031 10428 387 3497 2389	O
ATOM 7263 CB ALA C 115	-33.343 8.433 -3.382 1.00 73.68	C
ANISOU 7263 CB ALA C 115	9562 7819 10613 73 2824 1884	C
ATOM 7264 H ALA C 115	-35.532 8.819 -1.697 1.00 100.94	H
ATOM 7265 HA ALA C 115	-34.620 6.824 -3.268 1.00 91.78	H
ATOM 7266 HB1 ALA C 115	-33.710 8.764 -4.216 1.00 88.41	H
ATOM 7267 HB2 ALA C 115	-33.113 9.177 -2.803 1.00 88.41	H
ATOM 7268 HB3 ALA C 115	-32.557 7.894 -3.556 1.00 88.41	H
ATOM 7269 N PRO C 116	-33.236 5.804 -1.444 1.00 60.02	N
ANISOU 7269 N PRO C 116	7591 6105 9108 -255 3131 2298	N
ATOM 7270 CA PRO C 116	-32.545 5.272 -0.265 1.00 55.56	C
ANISOU 7270 CA PRO C 116	7169 5529 8414 -167 3337 2302	C
ATOM 7271 C PRO C 116	-31.226 5.987 -0.032 1.00 51.95	C
ANISOU 7271 C PRO C 116	7136 4939 7662 44 3367 1982	C
ATOM 7272 O PRO C 116	-30.499 6.312 -0.974 1.00 48.11	O
ANISOU 7272 O PRO C 116	6905 4243 7131 -44 3203 1742	O
ATOM 7273 CB PRO C 116	-32.323 3.799 -0.622 1.00 54.42	C
ANISOU 7273 CB PRO C 116	7026 5248 8405 -539 3091 2271	C
ATOM 7274 CG PRO C 116	-32.245 3.800 -2.120 1.00 53.62	C
ANISOU 7274 CG PRO C 116	7032 4933 8408 -798 2810 2145	C
ATOM 7275 CD PRO C 116	-33.189 4.869 -2.580 1.00 56.42	C
ANISOU 7275 CD PRO C 116	7167 5430 8839 -666 2817 2250	C
ATOM 7276 HA PRO C 116	-33.104 5.340 0.524 1.00 66.67	H
ATOM 7277 HB2 PRO C 116	-31.492 3.486 -0.231 1.00 65.31	H
ATOM 7278 HB3 PRO C 116	-33.074 3.267 -0.314 1.00 65.31	H
ATOM 7279 HG2 PRO C 116	-31.339 4.003 -2.398 1.00 64.34	H
ATOM 7280 HG3 PRO C 116	-32.520 2.933 -2.460 1.00 64.34	H
ATOM 7281 HD2 PRO C 116	-32.838 5.312 -3.368 1.00 67.70	H
ATOM 7282 HD3 PRO C 116	-34.069 4.494 -2.745 1.00 67.70	H
ATOM 7283 N SER C 117	-30.916 6.220 1.236 1.00 53.73	N
ANISOU 7283 N SER C 117	7443 5275 7696 322 3547 1974	N
ATOM 7284 CA SER C 117	-29.680 6.892 1.613 1.00 51.91	C
ANISOU 7284 CA SER C 117	7590 4926 7208 517 3557 1695	C
ATOM 7285 C SER C 117	-29.198 6.242 2.905 1.00 52.56	C
ANISOU 7285 C SER C 117	7738 5041 7189 617 3620 1707	C
ATOM 7286 O SER C 117	-29.549 5.098 3.220 1.00 53.37	O
ANISOU 7286 O SER C 117	7662 5193 7424 461 3605 1858	O
ATOM 7287 CB SER C 117	-29.905 8.408 1.732 1.00 52.13	C
ANISOU 7287 CB SER C 117	7717 5042 7046 846 3700 1650	C
ATOM 7288 H SER C 117	-31.410 5.997 1.904 1.00 64.47	H
ATOM 7289 HA SER C 117	-29.011 6.738 0.928 1.00 62.29	H
ATOM 7290 N ILE C 118	-28.378 6.971 3.659 1.00 52.25	N
ANISOU 7290 N ILE C 118	7981 4958 6912 872 3674 1546	N
ATOM 7291 CA ILE C 118	-27.971 6.537 4.991 1.00 53.71	C
ANISOU 7291 CA ILE C 118	8268 5167 6971 1022 3743 1576	C
ATOM 7292 C ILE C 118	-28.853 7.158 6.071 1.00 56.56	C
ANISOU 7292 C ILE C 118	8570 5713 7206 1350 3927 1753	C
ATOM 7293 O ILE C 118	-28.886 6.642 7.200 1.00 57.25	O
ANISOU 7293 O ILE C 118	8680 5844 7227 1468 4014 1858	O
ATOM 7294 CB ILE C 118	-26.483 6.864 5.244 1.00 51.35	C
ANISOU 7294 CB ILE C 118	8330 4679 6501 1084 3648 1314	C
ATOM 7295 CG1 ILE C 118	-26.230 8.373 5.149 1.00 50.23	C
ANISOU 7295 CG1 ILE C 118	8412 4495 6180 1295 3634 1163	C

ATOM 7296	CG2 ILE C 118	-25.614	6.108	4.240	1.00	49.23		C
ANISOU 7296	CG2 ILE C 118	8086	4245	6373	778	3463	1149	C
ATOM 7297	CD1 ILE C 118	-24.796	8.781	5.450	1.00	48.41		C
ANISOU 7297	CD1 ILE C 118	8524	4069	5801	1331	3509	947	C
ATOM 7298	H ILE C 118	-28.041	7.725	3.419	1.00	62.69		H
ATOM 7299	HA ILE C 118	-28.074	5.574	5.047	1.00	64.45		H
ATOM 7300	HB ILE C 118	-26.250	6.567	6.138	1.00	61.62		H
ATOM 7301	HG12 ILE C 118	-26.438	8.668	4.249	1.00	60.28		H
ATOM 7302	HG13 ILE C 118	-26.805	8.826	5.785	1.00	60.28		H
ATOM 7303	HG21 ILE C 118	-24.682	6.320	4.407	1.00	59.07		H
ATOM 7304	HG22 ILE C 118	-25.762	5.156	4.349	1.00	59.07		H
ATOM 7305	HG23 ILE C 118	-25.859	6.381	3.342	1.00	59.07		H
ATOM 7306	HD11 ILE C 118	-24.719	9.744	5.369	1.00	58.09		H
ATOM 7307	HD12 ILE C 118	-24.573	8.505	6.352	1.00	58.09		H
ATOM 7308	HD13 ILE C 118	-24.205	8.347	4.815	1.00	58.09		H
ATOM 7309	N ASP C 119	-29.563	8.238	5.759	1.00	57.82		N
ANISOU 7309	N ASP C 119	8671	5971	7326	1512	3982	1787	N
ATOM 7310	CA ASP C 119	-30.650	8.754	6.593	1.00	60.35		C
ANISOU 7310	CA ASP C 119	8865	6481	7585	1802	4150	1999	C
ATOM 7311	C ASP C 119	-32.006	8.340	6.041	1.00	62.12		C
ANISOU 7311	C ASP C 119	8644	6884	8075	1686	4245	2278	C
ATOM 7312	O ASP C 119	-32.891	9.180	5.878	1.00	65.13		O
ANISOU 7312	O ASP C 119	8884	7403	8460	1865	4328	2391	O
ATOM 7313	CB ASP C 119	-30.575	10.273	6.698	1.00	60.09		C
ANISOU 7313	CB ASP C 119	9065	6441	7327	2081	4121	1870	C
ATOM 7314	CG ASP C 119	-29.311	10.755	7.363	1.00	58.14		C
ANISOU 7314	CG ASP C 119	9240	6019	6831	2179	3987	1638	C
ATOM 7315	OD1 ASP C 119	-28.560	9.912	7.898	1.00	57.58		O
ANISOU 7315	OD1 ASP C 119	9274	5858	6747	2097	3964	1602	O
ATOM 7316	OD2 ASP C 119	-29.082	11.988	7.368	1.00	57.11		O
ANISOU 7316	OD2 ASP C 119	9328	5848	6524	2324	3887	1510	O
ATOM 7317	H ASP C 119	-29.430	8.704	5.048	1.00	69.38		H
ATOM 7318	HA ASP C 119	-30.564	8.386	7.486	1.00	72.43		H
ATOM 7319	HB2 ASP C 119	-30.608	10.653	5.806	1.00	72.11		H
ATOM 7320	HB3 ASP C 119	-31.328	10.590	7.221	1.00	72.11		H
ATOM 7321	N GLY C 120	-32.195	7.065	5.727	1.00	60.50		N
ANISOU 7321	N GLY C 120	8209	6672	8105	1375	4206	2399	N
ATOM 7322	CA GLY C 120	-33.512	6.552	5.403	1.00	62.59		C
ANISOU 7322	CA GLY C 120	8030	7100	8652	1241	4270	2703	C
ATOM 7323	C GLY C 120	-33.547	5.790	4.089	1.00	62.36		C
ANISOU 7323	C GLY C 120	7828	6982	8886	807	4073	2704	C
ATOM 7324	O GLY C 120	-32.626	5.830	3.273	1.00	57.91		O
ANISOU 7324	O GLY C 120	7496	6228	8278	640	3904	2464	O
ATOM 7325	H GLY C 120	-31.571	6.474	5.696	1.00	72.60		H
ATOM 7326	HA2 GLY C 120	-33.807	5.956	6.109	1.00	75.11		H
ATOM 7327	HA3 GLY C 120	-34.138	7.290	5.345	1.00	75.11		H
ATOM 7328	N ASP C 121	-34.677	5.098	3.894	1.00	68.76		N
ANISOU 7328	N ASP C 121	8230	7913	9984	624	4080	2989	N
ATOM 7329	CA ASP C 121	-34.899	4.236	2.736	1.00	71.86		C
ANISOU 7329	CA ASP C 121	8442	8208	10655	181	3845	3032	C
ATOM 7330	C ASP C 121	-35.563	4.961	1.574	1.00	75.38		C
ANISOU 7330	C ASP C 121	8679	8695	11268	106	3763	3114	C
ATOM 7331	O ASP C 121	-35.421	4.532	0.423	1.00	74.42		O

ANISOU 7331	O	ASP C 121	8568	8402	11306	-240	3509	3049	O
ATOM 7332	CB	ASP C 121	-35.767	3.038	3.135	1.00	75.30		C
ANISOU 7332	CB	ASP C 121	8550	8727	11332	-17	3849	3294	C
ATOM 7333	H	ASP C 121	-35.344	5.116	4.437	1.00	82.52		H
ATOM 7334	HA	ASP C 121	-34.044	3.897	2.428	1.00	86.24		H
ATOM 7335	N	ARG C 122	-36.308	6.030	1.850	1.00	80.41		N
ANISOU 7335	N	ARG C 122	9142	9545	11867	433	3954	3258	N
ATOM 7336	CA	ARG C 122	-36.862	6.898	0.810	1.00	83.72		C
ANISOU 7336	CA	ARG C 122	9391	10028	12392	442	3884	3311	C
ATOM 7337	C	ARG C 122	-36.620	8.330	1.279	1.00	84.36		C
ANISOU 7337	C	ARG C 122	9712	10201	12140	918	4083	3172	C
ATOM 7338	O	ARG C 122	-37.353	8.841	2.132	1.00	86.98		O
ANISOU 7338	O	ARG C 122	9891	10743	12416	1251	4299	3352	O
ATOM 7339	CB	ARG C 122	-38.343	6.623	0.576	1.00	89.12		C
ANISOU 7339	CB	ARG C 122	9485	10928	13447	331	3869	3700	C
ATOM 7340	H	ARG C 122	-36.510	6.279	2.647	1.00	96.50		H
ATOM 7341	HA	ARG C 122	-36.384	6.758	-0.022	1.00	100.47		H
ATOM 7342	N	THR C 123	-35.586	8.969	0.731	1.00	81.71		N
ANISOU 7342	N	THR C 123	9800	9675	11570	951	3912	2789	N
ATOM 7343	CA	THR C 123	-35.115	10.248	1.239	1.00	79.95		C
ANISOU 7343	CA	THR C 123	9902	9474	11003	1361	4079	2609	C
ATOM 7344	C	THR C 123	-34.784	11.184	0.086	1.00	74.06		C
ANISOU 7344	C	THR C 123	9354	8615	10170	1369	3832	2320	C
ATOM 7345	O	THR C 123	-34.728	10.783	-1.080	1.00	76.14		O
ANISOU 7345	O	THR C 123	9579	8749	10602	1059	3529	2222	O
ATOM 7346	CB	THR C 123	-33.879	10.073	2.132	1.00	79.32		C
ANISOU 7346	CB	THR C 123	10236	9233	10667	1434	4143	2396	C
ATOM 7347	H	THR C 123	-35.140	8.676	0.057	1.00	98.05		H
ATOM 7348	HA	THR C 123	-35.816	10.658	1.770	1.00	95.94		H
ATOM 7349	N	THR C 124	-34.552	12.447	0.440	1.00	65.93		N
ANISOU 7349	N	THR C 124	8581	7615	8856	1740	3974	2184	N
ATOM 7350	CA	THR C 124	-34.157	13.488	-0.504	1.00	58.20		C
ANISOU 7350	CA	THR C 124	7851	6516	7746	1809	3800	1901	C
ATOM 7351	C	THR C 124	-32.759	13.961	-0.135	1.00	55.25		C
ANISOU 7351	C	THR C 124	7977	5925	7090	1896	3813	1572	C
ATOM 7352	O	THR C 124	-32.541	14.443	0.982	1.00	53.37		O
ANISOU 7352	O	THR C 124	7916	5718	6644	2136	3913	1560	O
ATOM 7353	CB	THR C 124	-35.125	14.680	-0.504	1.00	56.91		C
ANISOU 7353	CB	THR C 124	7565	6560	7499	2175	3941	2024	C
ATOM 7354	OG1	THR C 124	-36.385	14.278	-1.053	1.00	59.04		O
ANISOU 7354	OG1	THR C 124	7337	7020	8077	2060	3861	2319	O
ATOM 7355	CG2	THR C 124	-34.564	15.853	-1.303	1.00	53.86		C
ANISOU 7355	CG2	THR C 124	7528	6021	6914	2295	3810	1705	C
ATOM 7356	H	THR C 124	-34.620	12.733	1.248	1.00	79.12		H
ATOM 7357	HA	THR C 124	-34.128	13.116	-1.400	1.00	69.84		H
ATOM 7358	HB	THR C 124	-35.259	14.977	0.410	1.00	68.29		H
ATOM 7359	HG1	THR C 124	-36.918	14.927	-1.054	1.00	70.85		H
ATOM 7360	HG21	THR C 124	-35.191	16.593	-1.289	1.00	64.63		H
ATOM 7361	HG22	THR C 124	-33.723	16.145	-0.917	1.00	64.63		H
ATOM 7362	HG23	THR C 124	-34.413	15.585	-2.223	1.00	64.63		H
ATOM 7363	N	PHE C 125	-31.821	13.829	-1.069	1.00	47.59		N
ANISOU 7363	N	PHE C 125	7566	6057	4461	3107	1905	1311	N
ATOM 7364	CA	PHE C 125	-30.473	14.336	-0.875	1.00	49.35		C

ANISOU 7364	CA	PHE C 125	8163	5984	4602	2965	1776	1031	C
ATOM 7365	C	PHE C 125	-29.986	14.976	-2.166	1.00	47.94		C
ANISOU 7365	C	PHE C 125	8039	5665	4510	2844	1690	955	C
ATOM 7366	O	PHE C 125	-30.555	14.781	-3.244	1.00	47.36		O
ANISOU 7366	O	PHE C 125	7684	5735	4575	2828	1716	1096	O
ATOM 7367	CB	PHE C 125	-29.501	13.231	-0.432	1.00	48.99		C
ANISOU 7367	CB	PHE C 125	8092	5941	4583	2736	1662	918	C
ATOM 7368	CG	PHE C 125	-29.581	11.981	-1.261	1.00	47.46		C
ANISOU 7368	CG	PHE C 125	7520	5946	4565	2567	1623	1031	C
ATOM 7369	CD1	PHE C 125	-28.646	11.729	-2.254	1.00	45.19		C
ANISOU 7369	CD1	PHE C 125	7227	5583	4359	2349	1491	917	C
ATOM 7370	CD2	PHE C 125	-30.584	11.049	-1.039	1.00	48.45		C
ANISOU 7370	CD2	PHE C 125	7299	6351	4760	2607	1700	1265	C
ATOM 7371	CE1	PHE C 125	-28.719	10.573	-3.019	1.00	43.79		C
ANISOU 7371	CE1	PHE C 125	6707	5560	4370	2132	1361	1018	C
ATOM 7372	CE2	PHE C 125	-30.662	9.894	-1.796	1.00	46.80		C
ANISOU 7372	CE2	PHE C 125	6773	6307	4700	2396	1614	1392	C
ATOM 7373	CZ	PHE C 125	-29.730	9.655	-2.788	1.00	44.47		C
ANISOU 7373	CZ	PHE C 125	6497	5889	4511	2157	1422	1258	C
ATOM 7374	H	PHE C 125	-31.945	13.446	-1.829	1.00	57.11		H
ATOM 7375	HA	PHE C 125	-30.487	15.019	-0.186	1.00	59.22		H
ATOM 7376	HB2	PHE C 125	-28.594	13.570	-0.494	1.00	58.79		H
ATOM 7377	HB3	PHE C 125	-29.699	12.991	0.486	1.00	58.79		H
ATOM 7378	HD1	PHE C 125	-27.967	12.344	-2.414	1.00	54.23		H
ATOM 7379	HD2	PHE C 125	-31.216	11.205	-0.374	1.00	58.14		H
ATOM 7380	HE1	PHE C 125	-28.089	10.414	-3.685	1.00	52.54		H
ATOM 7381	HE2	PHE C 125	-31.341	9.279	-1.638	1.00	56.16		H
ATOM 7382	HZ	PHE C 125	-29.780	8.879	-3.297	1.00	53.37		H
ATOM 7383	N	THR C 126	-28.926	15.762	-2.030	1.00	46.26		N
ANISOU 7383	N	THR C 126	8185	5177	4214	2746	1571	741	N
ATOM 7384	CA	THR C 126	-28.250	16.366	-3.164	1.00	42.98		C
ANISOU 7384	CA	THR C 126	7839	4604	3886	2597	1456	654	C
ATOM 7385	C	THR C 126	-27.094	15.474	-3.585	1.00	38.74		C
ANISOU 7385	C	THR C 126	7220	4048	3450	2330	1304	556	C
ATOM 7386	O	THR C 126	-26.423	14.869	-2.743	1.00	36.66		O
ANISOU 7386	O	THR C 126	7046	3767	3117	2230	1244	458	O
ATOM 7387	CB	THR C 126	-27.746	17.763	-2.798	1.00	45.69		C
ANISOU 7387	CB	THR C 126	8618	4649	4093	2623	1379	505	C
ATOM 7388	OG1	THR C 126	-28.869	18.634	-2.618	1.00	48.91		O
ANISOU 7388	OG1	THR C 126	9087	5073	4424	2907	1522	591	O
ATOM 7389	CG2	THR C 126	-26.814	18.336	-3.879	1.00	44.22		C
ANISOU 7389	CG2	THR C 126	8522	4267	4013	2410	1207	427	C
ATOM 7390	H	THR C 126	-28.572	15.964	-1.273	1.00	55.51		H
ATOM 7391	HA	THR C 126	-28.868	16.444	-3.908	1.00	51.57		H
ATOM 7392	HB	THR C 126	-27.248	17.712	-1.967	1.00	54.83		H
ATOM 7393	HG1	THR C 126	-28.604	19.405	-2.417	1.00	58.69		H
ATOM 7394	HG21	THR C 126	-26.511	19.220	-3.620	1.00	53.07		H
ATOM 7395	HG22	THR C 126	-26.042	17.759	-3.991	1.00	53.07		H
ATOM 7396	HG23	THR C 126	-27.286	18.400	-4.724	1.00	53.07		H
ATOM 7397	N	GLN C 127	-26.879	15.386	-4.894	1.00	36.33		N
ANISOU 7397	N	GLN C 127	6736	3759	3310	2221	1230	599	N
ATOM 7398	CA	GLN C 127	-25.789	14.608	-5.462	1.00	32.27		C
ANISOU 7398	CA	GLN C 127	6060	3310	2891	1882	1033	531	C

ATOM 7399 C GLN C 127	-24.784	15.548	-6.113	1.00	30.62	C
ANISOU 7399 C GLN C 127	6032	2916	2687	1699	878 459	C
ATOM 7400 O GLN C 127	-25.128	16.277	-7.048	1.00	30.58	O
ANISOU 7400 O GLN C 127	6004	2876	2741	1737	885 549	O
ATOM 7401 CB GLN C 127	-26.317	13.590	-6.469	1.00	31.26	C
ANISOU 7401 CB GLN C 127	5510	3443	2922	1805	1017 658	C
ATOM 7402 CG GLN C 127	-27.149	12.498	-5.829	1.00	31.89	C
ANISOU 7402 CG GLN C 127	5386	3710	3019	1891	1105 761	C
ATOM 7403 CD GLN C 127	-27.578	11.445	-6.824	1.00	31.71	C
ANISOU 7403 CD GLN C 127	4997	3898	3155	1764	1023 872	C
ATOM 7404 OE1 GLN C 127	-28.113	11.763	-7.881	1.00	32.95	O
ANISOU 7404 OE1 GLN C 127	5013	4123	3385	1784	1025 974	O
ATOM 7405 NE2 GLN C 127	-27.332	10.180	-6.496	1.00	31.57	N
ANISOU 7405 NE2 GLN C 127	4845	3964	3186	1626	925 853	N
ATOM 7406 H GLN C 127	-27.364	15.779	-5.486	1.00	43.60	H
ATOM 7407 HA GLN C 127	-25.337	14.126	-4.752	1.00	38.72	H
ATOM 7408 HB2 GLN C 127	-26.873	14.048	-7.118	1.00	37.51	H
ATOM 7409 HB3 GLN C 127	-25.565	13.169	-6.915	1.00	37.51	H
ATOM 7410 HG2 GLN C 127	-26.626	12.064	-5.137	1.00	38.27	H
ATOM 7411 HG3 GLN C 127	-27.948	12.892	-5.445	1.00	38.27	H
ATOM 7412 HE21 GLN C 127	-26.948	9.996	-5.749	1.00	37.88	H
ATOM 7413 HE22 GLN C 127	-27.558	9.545	-7.031	1.00	37.88	H
ATOM 7414 N TYR C 128	-23.568	15.561	-5.578	1.00	30.99	N
ANISOU 7414 N TYR C 128	6256	2852	2669	1494	730 327	N
ATOM 7415 CA TYR C 128	-22.420	16.205	-6.198	1.00	30.90	C
ANISOU 7415 CA TYR C 128	6330	2737	2674	1234	544 299	C
ATOM 7416 C TYR C 128	-21.688	15.176	-7.045	1.00	27.59	C
ANISOU 7416 C TYR C 128	5545	2579	2361	1008	447 307	C
ATOM 7417 O TYR C 128	-21.433	14.062	-6.578	1.00	25.38	O
ANISOU 7417 O TYR C 128	5122	2428	2095	972	430 250	O
ATOM 7418 CB TYR C 128	-21.453	16.751	-5.144	1.00	34.60	C
ANISOU 7418 CB TYR C 128	7166	2970	3009	1109	408 178	C
ATOM 7419 CG TYR C 128	-21.933	17.930	-4.326	1.00	39.98	C
ANISOU 7419 CG TYR C 128	8315	3328	3547	1316	453 121	C
ATOM 7420 CD1 TYR C 128	-23.222	18.430	-4.452	1.00	42.52	C
ANISOU 7420 CD1 TYR C 128	8693	3600	3863	1655	646 182	C
ATOM 7421 CD2 TYR C 128	-21.075	18.547	-3.421	1.00	42.85	C
ANISOU 7421 CD2 TYR C 128	9078	3432	3770	1184	287 3	C
ATOM 7422 CE1 TYR C 128	-23.647	19.520	-3.692	1.00	46.39	C
ANISOU 7422 CE1 TYR C 128	9493	3931	4203	1803	669 118	C
ATOM 7423 CE2 TYR C 128	-21.486	19.633	-2.661	1.00	46.36	C
ANISOU 7423 CE2 TYR C 128	9903	3653	4060	1344	295 -66	C
ATOM 7424 CZ TYR C 128	-22.773	20.119	-2.798	1.00	48.13	C
ANISOU 7424 CZ TYR C 128	10087	3926	4275	1657	491 -10	C
ATOM 7425 OH TYR C 128	-23.189	21.207	-2.044	1.00	51.24	O
ANISOU 7425 OH TYR C 128	10813	4146	4508	1824	493 -68	O
ATOM 7426 H TYR C 128	-23.379	15.187	-4.826	1.00	37.19	H
ATOM 7427 HA TYR C 128	-22.714	16.934	-6.767	1.00	37.08	H
ATOM 7428 HB2 TYR C 128	-21.247	16.035	-4.523	1.00	41.51	H
ATOM 7429 HB3 TYR C 128	-20.639	17.027	-5.595	1.00	41.51	H
ATOM 7430 HD1 TYR C 128	-23.811	18.033	-5.051	1.00	51.03	H
ATOM 7431 HD2 TYR C 128	-20.208	18.226	-3.325	1.00	51.42	H
ATOM 7432 HE1 TYR C 128	-24.512	19.845	-3.788	1.00	55.67	H

ATOM 7433	HE2 TYR C 128	-20.897	20.033	-2.062	1.00	55.64	H
ATOM 7434	HH TYR C 128	-23.987	21.396	-2.228	1.00	61.48	H
ATOM 7435	N TRP C 129	-21.323	15.553	-8.271	1.00	26.41	N
ANISOU 7435	N TRP C 129	5259	2505	2269	870	378 380	N
ATOM 7436	CA TRP C 129	-20.557	14.681	-9.149	1.00	24.94	C
ANISOU 7436	CA TRP C 129	4751	2583	2144	693	296 374	C
ATOM 7437	C TRP C 129	-19.308	15.382	-9.662	1.00	26.13	C
ANISOU 7437	C TRP C 129	4925	2739	2265	436	148 413	C
ATOM 7438	O TRP C 129	-19.353	16.555	-10.049	1.00	27.28	O
ANISOU 7438	O TRP C 129	5232	2742	2393	383	112 510	O
ATOM 7439	CB TRP C 129	-21.368	14.234	-10.384	1.00	24.10	C
ANISOU 7439	CB TRP C 129	4363	2684	2112	770	366 454	C
ATOM 7440	CG TRP C 129	-22.692	13.579	-10.139	1.00	23.62	C
ANISOU 7440	CG TRP C 129	4211	2664	2100	980	488 486	C
ATOM 7441	CD1 TRP C 129	-23.882	14.198	-9.901	1.00	24.67	C
ANISOU 7441	CD1 TRP C 129	4443	2698	2234	1188	614 587	C
ATOM 7442	CD2 TRP C 129	-22.971	12.178	-10.176	1.00	22.39	C
ANISOU 7442	CD2 TRP C 129	3827	2675	2004	996	479 449	C
ATOM 7443	NE1 TRP C 129	-24.883	13.268	-9.761	1.00	24.35	N
ANISOU 7443	NE1 TRP C 129	4212	2791	2248	1311	691 642	N
ATOM 7444	CE2 TRP C 129	-24.346	12.018	-9.923	1.00	22.76	C
ANISOU 7444	CE2 TRP C 129	3828	2731	2090	1175	592 558	C
ATOM 7445	CE3 TRP C 129	-22.187	11.042	-10.383	1.00	21.49	C
ANISOU 7445	CE3 TRP C 129	3552	2696	1919	886	374 343	C
ATOM 7446	CZ2 TRP C 129	-24.953	10.769	-9.876	1.00	22.42	C
ANISOU 7446	CZ2 TRP C 129	3585	2816	2117	1194	576 585	C
ATOM 7447	CZ3 TRP C 129	-22.789	9.802	-10.331	1.00	20.74	C
ANISOU 7447	CZ3 TRP C 129	3302	2683	1895	937	356 335	C
ATOM 7448	CH2 TRP C 129	-24.159	9.675	-10.084	1.00	21.94	C
ANISOU 7448	CH2 TRP C 129	3414	2831	2090	1062	443 465	C
ATOM 7449	H TRP C 129	-21.511	16.318	-8.618	1.00	31.69	H
ATOM 7450	HA TRP C 129	-20.285	13.889	-8.659	1.00	29.93	H
ATOM 7451	HB2 TRP C 129	-21.535	15.016	-10.932	1.00	28.93	H
ATOM 7452	HB3 TRP C 129	-20.828	13.604	-10.886	1.00	28.93	H
ATOM 7453	HD1 TRP C 129	-23.998	15.118	-9.834	1.00	29.60	H
ATOM 7454	HE1 TRP C 129	-25.709	13.441	-9.596	1.00	29.22	H
ATOM 7455	HE3 TRP C 129	-21.276	11.120	-10.549	1.00	25.79	H
ATOM 7456	HZ2 TRP C 129	-25.864	10.680	-9.707	1.00	26.90	H
ATOM 7457	HZ3 TRP C 129	-22.276	9.038	-10.468	1.00	24.89	H
ATOM 7458	HH2 TRP C 129	-24.538	8.826	-10.053	1.00	26.33	H
ATOM 7459	N SER C 130	-18.210	14.636	-9.708	1.00	25.77	N
ANISOU 7459	N SER C 130	4694	2876	2220	281	57 363	N
ATOM 7460	CA SER C 130	-17.084	14.911	-10.591	1.00	26.97	C
ANISOU 7460	CA SER C 130	4678	3214	2356	55	-48 444	C
ATOM 7461	C SER C 130	-16.909	13.689	-11.476	1.00	26.48	C
ANISOU 7461	C SER C 130	4253	3486	2323	109	-5 394	C
ATOM 7462	O SER C 130	-16.687	12.586	-10.967	1.00	25.20	O
ANISOU 7462	O SER C 130	3997	3390	2188	177	-11 278	O
ATOM 7463	CB SER C 130	-15.803	15.196	-9.805	1.00	28.94	C
ANISOU 7463	CB SER C 130	5031	3404	2561	-167	-209 447	C
ATOM 7464	OG SER C 130	-15.821	16.497	-9.255	1.00	30.22	O
ANISOU 7464	OG SER C 130	5559	3246	2676	-267	-300 504	O
ATOM 7465	H SER C 130	-18.091	13.939	-9.218	1.00	30.92	H

ATOM 7466 HA SER C 130	-17.285 15.677 -11.151 1.00 32.37	H
ATOM 7467 HB2 SER C 130	-15.724 14.551 -9.085 1.00 34.73	H
ATOM 7468 HB3 SER C 130	-15.043 15.118 -10.403 1.00 34.73	H
ATOM 7469 HG SER C 130	-15.888 17.068 -9.868 1.00 36.26	H
ATOM 7470 N VAL C 131	-17.019 13.879 -12.789 1.00 24.87	N
ANISOU 7470 N VAL C 131	3871 3479 2101 89 26 478	N
ATOM 7471 CA VAL C 131	-16.993 12.782 -13.750 1.00 24.14	C
ANISOU 7471 CA VAL C 131	3487 3686 1999 175 66 408	C
ATOM 7472 C VAL C 131	-15.842 13.019 -14.718 1.00 25.70	C
ANISOU 7472 C VAL C 131	3469 4190 2108 23 27 495	C
ATOM 7473 O VAL C 131	-15.850 14.001 -15.474 1.00 26.61	O
ANISOU 7473 O VAL C 131	3582 4354 2174 -95 22 660	O
ATOM 7474 CB VAL C 131	-18.323 12.660 -14.509 1.00 23.57	C
ANISOU 7474 CB VAL C 131	3383 3624 1949 318 147 429	C
ATOM 7475 CG1 VAL C 131	-18.316 11.423 -15.395 1.00 23.12	C
ANISOU 7475 CG1 VAL C 131	3090 3829 1866 407 150 317	C
ATOM 7476 CG2 VAL C 131	-19.507 12.638 -13.532 1.00 22.85	C
ANISOU 7476 CG2 VAL C 131	3479 3266 1936 463 203 412	C
ATOM 7477 H VAL C 131	-17.113 14.652 -13.154 1.00 29.85	H
ATOM 7478 HA VAL C 131	-16.832 11.949 -13.281 1.00 28.97	H
ATOM 7479 HB VAL C 131	-18.427 13.435 -15.083 1.00 28.29	H
ATOM 7480 HG11 VAL C 131	-19.164 11.366 -15.864 1.00 27.74	H
ATOM 7481 HG12 VAL C 131	-17.589 11.496 -16.033 1.00 27.74	H
ATOM 7482 HG13 VAL C 131	-18.192 10.638 -14.839 1.00 27.74	H
ATOM 7483 HG21 VAL C 131	-20.332 12.561 -14.038 1.00 27.42	H
ATOM 7484 HG22 VAL C 131	-19.411 11.878 -12.937 1.00 27.42	H
ATOM 7485 HG23 VAL C 131	-19.509 13.462 -13.020 1.00 27.42	H
ATOM 7486 N ARG C 132	-14.880 12.100 -14.733 1.00 25.59	N
ANISOU 7486 N ARG C 132	3254 4402 2068 41 4 404	N
ATOM 7487 CA ARG C 132	-13.738 12.238 -15.629 1.00 27.38	C
ANISOU 7487 CA ARG C 132	3223 4992 2188 -67 -6 502	C
ATOM 7488 C ARG C 132	-14.201 12.288 -17.081 1.00 28.02	C
ANISOU 7488 C ARG C 132	3164 5313 2170 -9 72 544	C
ATOM 7489 O ARG C 132	-15.067 11.514 -17.500 1.00 26.77	O
ANISOU 7489 O ARG C 132	3003 5153 2016 176 119 405	O
ATOM 7490 CB ARG C 132	-12.764 11.077 -15.415 1.00 27.54	C
ANISOU 7490 CB ARG C 132	3037 5228 2197 36 -19 373	C
ATOM 7491 CG ARG C 132	-11.325 11.329 -15.888 1.00 29.96	C
ANISOU 7491 CG ARG C 132	3066 5914 2405 -96 -38 520	C
ATOM 7492 CD ARG C 132	-10.413 10.218 -15.381 1.00 30.19	C
ANISOU 7492 CD ARG C 132	2926 6089 2457 39 -62 398	C
ATOM 7493 NE ARG C 132	-8.994 10.488 -15.592 1.00 33.14	N
ANISOU 7493 NE ARG C 132	3009 6829 2753 -93 -89 580	N
ATOM 7494 CZ ARG C 132	-8.310 10.140 -16.679 1.00 36.01	C
ANISOU 7494 CZ ARG C 132	3048 7659 2976 21 9 613	C
ATOM 7495 NH1 ARG C 132	-8.904 9.501 -17.678 1.00 34.35	N
ANISOU 7495 NH1 ARG C 132	2804 7576 2672 269 123 445	N
ATOM 7496 NH2 ARG C 132	-7.019 10.432 -16.765 1.00 39.19	N
ANISOU 7496 NH2 ARG C 132	3155 8422 3315 -112 -14 827	N
ATOM 7497 H ARG C 132	-14.865 11.396 -14.240 1.00 30.71	H
ATOM 7498 HA ARG C 132	-13.273 13.066 -15.429 1.00 32.86	H
ATOM 7499 HB2 ARG C 132	-12.728 10.877 -14.467 1.00 33.04	H
ATOM 7500 HB3 ARG C 132	-13.098 10.304 -15.897 1.00 33.04	H

ATOM	7501	HG2 ARG C 132	-11.297	11.333	-16.858	1.00	35.96	H
ATOM	7502	HG3 ARG C 132	-11.009	12.175	-15.534	1.00	35.96	H
ATOM	7503	HD2 ARG C 132	-10.556	10.106	-14.428	1.00	36.23	H
ATOM	7504	HD3 ARG C 132	-10.632	9.395	-15.846	1.00	36.23	H
ATOM	7505	HE ARG C 132	-8.569	10.903	-14.970	1.00	39.77	H
ATOM	7506	HH11 ARG C 132	-9.740	9.307	-17.627	1.00	41.22	H
ATOM	7507	HH12 ARG C 132	-8.453	9.280	-18.376	1.00	41.22	H
ATOM	7508	HH21 ARG C 132	-6.628	10.847	-16.122	1.00	47.03	H
ATOM	7509	HH22 ARG C 132	-6.573	10.210	-17.467	1.00	47.03	H
ATOM	7510	N GLN C 133	-13.591	13.195	-17.855	1.00	30.19	N
ANISOU	7510	N GLN C 133	3319	5806	2344	-193	63 756	N
ATOM	7511	CA GLN C 133	-14.019	13.456	-19.228	1.00	30.92	C
ANISOU	7511	CA GLN C 133	3299	6131	2318	-179	126 846	C
ATOM	7512	C GLN C 133	-13.756	12.285	-20.160	1.00	32.21	C
ANISOU	7512	C GLN C 133	3225	6673	2341	25	205 682	C
ATOM	7513	O GLN C 133	-14.391	12.195	-21.216	1.00	31.25	O
ANISOU	7513	O GLN C 133	3063	6696	2114	99	250 675	O
ATOM	7514	CB GLN C 133	-13.315	14.694	-19.769	1.00	32.70	C
ANISOU	7514	CB GLN C 133	3442	6519	2463	-453	81 1149	C
ATOM	7515	CG GLN C 133	-13.750	15.972	-19.083	1.00	33.03	C
ANISOU	7515	CG GLN C 133	3787	6139	2625	-639	-22 1309	C
ATOM	7516	CD GLN C 133	-13.218	17.199	-19.781	1.00	35.35	C
ANISOU	7516	CD GLN C 133	4024	6559	2848	-926	-99 1635	C
ATOM	7517	OE1 GLN C 133	-12.212	17.131	-20.485	1.00	37.22	O
ANISOU	7517	OE1 GLN C 133	3961	7229	2952	-1044	-85 1776	O
ATOM	7518	NE2 GLN C 133	-13.896	18.327	-19.601	1.00	35.79	N
ANISOU	7518	NE2 GLN C 133	4364	6248	2987	-1030	-183 1774	N
ATOM	7519	H GLN C 133	-12.922	13.673	-17.603	1.00	36.22	H
ATOM	7520	HA GLN C 133	-14.973	13.631	-19.231	1.00	37.10	H
ATOM	7521	HB2 GLN C 133	-12.359	14.595	-19.637	1.00	39.24	H
ATOM	7522	HB3 GLN C 133	-13.511	14.780	-20.715	1.00	39.24	H
ATOM	7523	HG2 GLN C 133	-14.719	16.020	-19.085	1.00	39.64	H
ATOM	7524	HG3 GLN C 133	-13.417	15.975	-18.172	1.00	39.64	H
ATOM	7525	HE21 GLN C 133	-14.599	18.332	-19.107	1.00	42.95	H
ATOM	7526	HE22 GLN C 133	-13.631	19.053	-19.979	1.00	42.95	H
ATOM	7527	N SER C 134	-12.812	11.418	-19.816	1.00	33.07	N
ANISOU	7527	N SER C 134	3187	6945	2432	126	212 555	N
ATOM	7528	CA SER C 134	-12.693	10.126	-20.465	1.00	34.80	C
ANISOU	7528	CA SER C 134	3270	7408	2544	398	270 322	C
ATOM	7529	C SER C 134	-12.192	9.142	-19.422	1.00	32.93	C
ANISOU	7529	C SER C 134	3044	7044	2423	533	227 142	C
ATOM	7530	O SER C 134	-11.616	9.528	-18.399	1.00	31.16	O
ANISOU	7530	O SER C 134	2843	6691	2305	390	169 239	O
ATOM	7531	CB SER C 134	-11.772	10.179	-21.690	1.00	39.08	C
ANISOU	7531	CB SER C 134	3518	8491	2841	426	362 411	C
ATOM	7532	OG SER C 134	-10.434	10.447	-21.323	1.00	41.84	O
ANISOU	7532	OG SER C 134	3649	9077	3172	320	366 565	O
ATOM	7533	H SER C 134	-12.226	11.557	-19.203	1.00	39.68	H
ATOM	7534	HA SER C 134	-13.570	9.835	-20.759	1.00	41.76	H
ATOM	7535	HB2 SER C 134	-11.807	9.324	-22.146	1.00	46.90	H
ATOM	7536	HB3 SER C 134	-12.081	10.882	-22.284	1.00	46.90	H
ATOM	7537	HG SER C 134	-10.151	9.845	-20.809	1.00	50.21	H
ATOM	7538	N LYS C 135	-12.433	7.862	-19.695	1.00	32.78	N

ANISOU 7538 N LYS C 135	3032 7044 2380 802 230 -117	N
ATOM 7539 CA LYS C 135	-12.201 6.821 -18.708 1.00 31.53	C
ANISOU 7539 CA LYS C 135	2932 6691 2358 948 162 -296	C
ATOM 7540 C LYS C 135	-10.730 6.745 -18.330 1.00 32.92	C
ANISOU 7540 C LYS C 135	2881 7116 2511 958 174 -231	C
ATOM 7541 O LYS C 135	-9.843 6.766 -19.189 1.00 35.02	O
ANISOU 7541 O LYS C 135	2891 7815 2602 1034 261 -181	O
ATOM 7542 CB LYS C 135	-12.677 5.477 -19.250 1.00 31.57	C
ANISOU 7542 CB LYS C 135	2999 6671 2324 1230 133 -576	C
ATOM 7543 CG LYS C 135	-14.129 5.504 -19.701 1.00 30.31	C
ANISOU 7543 CG LYS C 135	3027 6307 2181 1196 95 -609	C
ATOM 7544 CD LYS C 135	-14.606 4.149 -20.169 1.00 31.08	C
ANISOU 7544 CD LYS C 135	3227 6331 2252 1427 7 -878	C
ATOM 7545 CE LYS C 135	-16.072 4.205 -20.553 1.00 31.06	C
ANISOU 7545 CE LYS C 135	3385 6136 2281 1345 -62 -861	C
ATOM 7546 NZ LYS C 135	-16.615 2.873 -20.910 1.00 32.15	N
ANISOU 7546 NZ LYS C 135	3664 6135 2415 1513 -208 -1105	N
ATOM 7547 H LYS C 135	-12.732 7.573 -20.448 1.00 39.34	H
ATOM 7548 HA LYS C 135	-12.709 7.022 -17.907 1.00 37.84	H
ATOM 7549 HB2 LYS C 135	-12.130 5.234 -20.014 1.00 37.88	H
ATOM 7550 HB3 LYS C 135	-12.591 4.808 -18.554 1.00 37.88	H
ATOM 7551 HG2 LYS C 135	-14.687 5.781 -18.957 1.00 36.37	H
ATOM 7552 HG3 LYS C 135	-14.221 6.128 -20.437 1.00 36.37	H
ATOM 7553 HD2 LYS C 135	-14.094 3.877 -20.948 1.00 37.30	H
ATOM 7554 HD3 LYS C 135	-14.501 3.504 -19.453 1.00 37.30	H
ATOM 7555 HE2 LYS C 135	-16.583 4.548 -19.804 1.00 37.27	H
ATOM 7556 HE3 LYS C 135	-16.176 4.788 -21.322 1.00 37.27	H
ATOM 7557 HZ1 LYS C 135	-16.167 2.537 -21.601 1.00 38.57	H
ATOM 7558 HZ2 LYS C 135	-16.538 2.319 -20.218 1.00 38.57	H
ATOM 7559 HZ3 LYS C 135	-17.475 2.945 -21.129 1.00 38.57	H
ATOM 7560 N ARG C 136	-10.480 6.644 -17.037 1.00 31.35	N
ANISOU 7560 N ARG C 136	2763 6673 2477 886 88 -215	N
ATOM 7561 CA ARG C 136	-9.120 6.573 -16.531 1.00 32.81	C
ANISOU 7561 CA ARG C 136	2731 7069 2666 869 65 -123	C
ATOM 7562 C ARG C 136	-8.561 5.166 -16.725 1.00 34.03	C
ANISOU 7562 C ARG C 136	2755 7377 2799 1223 76 -342	C
ATOM 7563 O ARG C 136	-9.279 4.186 -16.514 1.00 32.96	O
ANISOU 7563 O ARG C 136	2809 6966 2747 1407 19 -567	O
ATOM 7564 CB ARG C 136	-9.089 6.931 -15.056 1.00 31.27	C
ANISOU 7564 CB ARG C 136	2701 6543 2637 667 -56 -38	C
ATOM 7565 CG ARG C 136	-7.715 7.190 -14.489 1.00 33.10	C
ANISOU 7565 CG ARG C 136	2718 6984 2873 539 -118 137	C
ATOM 7566 CD ARG C 136	-7.862 7.637 -13.031 1.00 32.31	C
ANISOU 7566 CD ARG C 136	2862 6509 2906 315 -258 204	C
ATOM 7567 NE ARG C 136	-6.607 8.094 -12.444 1.00 35.11	N
ANISOU 7567 NE ARG C 136	3046 7032 3261 104 -365 415	N
ATOM 7568 CZ ARG C 136	-6.520 8.804 -11.320 1.00 36.16	C
ANISOU 7568 CZ ARG C 136	3385 6904 3452 -168 -511 527	C
ATOM 7569 NH1 ARG C 136	-7.613 9.152 -10.657 1.00 34.22	N
ANISOU 7569 NH1 ARG C 136	3515 6232 3253 -222 -535 440	N
ATOM 7570 NH2 ARG C 136	-5.334 9.177 -10.861 1.00 38.69	N
ANISOU 7570 NH2 ARG C 136	3531 7403 3766 -382 -640 736	N
ATOM 7571 H ARG C 136	-11.085 6.615 -16.426 1.00 37.63	H

ATOM 7572	HA ARG C 136	-8.558	7.200	-17.014	1.00	39.37	H
ATOM 7573	HB2 ARG C 136	-9.617	7.734	-14.923	1.00	37.52	H
ATOM 7574	HB3 ARG C 136	-9.479	6.198	-14.553	1.00	37.52	H
ATOM 7575	HG2 ARG C 136	-7.189	6.376	-14.515	1.00	39.72	H
ATOM 7576	HG3 ARG C 136	-7.280	7.898	-14.990	1.00	39.72	H
ATOM 7577	HD2 ARG C 136	-8.497	8.370	-12.988	1.00	38.78	H
ATOM 7578	HD3 ARG C 136	-8.184	6.889	-12.503	1.00	38.78	H
ATOM 7579	HE ARG C 136	-5.876	7.892	-12.849	1.00	42.13	H
ATOM 7580	HH11 ARG C 136	-8.387	8.914	-10.949	1.00	41.06	H
ATOM 7581	HH12 ARG C 136	-7.550	9.611	-9.933	1.00	41.06	H
ATOM 7582	HH21 ARG C 136	-4.620	8.957	-11.286	1.00	46.43	H
ATOM 7583	HH22 ARG C 136	-5.279	9.637	-10.136	1.00	46.43	H
ATOM 7584	N PRO C 137	-7.293	5.035	-17.126	1.00	36.80	N
ANISOU 7584	N PRO C 137	2781	8163	3036	1332	141 -268	N
ATOM 7585	CA PRO C 137	-6.683	3.702	-17.171	1.00	38.78	C
ANISOU 7585	CA PRO C 137	2922	8532	3281	1715	145 -477	C
ATOM 7586	C PRO C 137	-6.599	3.094	-15.782	1.00	37.97	C
ANISOU 7586	C PRO C 137	2945	8082	3401	1717	-6 -524	C
ATOM 7587	O PRO C 137	-6.235	3.758	-14.807	1.00	36.71	O
ANISOU 7587	O PRO C 137	2771	7838	3340	1443	-85 -321	O
ATOM 7588	CB PRO C 137	-5.287	3.959	-17.749	1.00	42.30	C
ANISOU 7588	CB PRO C 137	3028	9475	3570	1736	235 -286	C
ATOM 7589	CG PRO C 137	-5.362	5.318	-18.376	1.00	42.79	C
ANISOU 7589	CG PRO C 137	2969	9782	3509	1433	309 -27	C
ATOM 7590	CD PRO C 137	-6.336	6.076	-17.536	1.00	39.07	C
ANISOU 7590	CD PRO C 137	2775	8869	3203	1120	204 34	C
ATOM 7591	HA PRO C 137	-7.181	3.114	-17.760	1.00	46.54	H
ATOM 7592	HB2 PRO C 137	-4.630	3.947	-17.035	1.00	50.76	H
ATOM 7593	HB3 PRO C 137	-5.080	3.285	-18.416	1.00	50.76	H
ATOM 7594	HG2 PRO C 137	-4.488	5.738	-18.353	1.00	51.35	H
ATOM 7595	HG3 PRO C 137	-5.682	5.240	-19.289	1.00	51.35	H
ATOM 7596	HD2 PRO C 137	-5.893	6.454	-16.761	1.00	46.89	H
ATOM 7597	HD3 PRO C 137	-6.780	6.758	-18.063	1.00	46.89	H
ATOM 7598	N THR C 138	-6.937	1.815	-15.709	1.00	38.26	N
ANISOU 7598	N THR C 138	3125	7909	3505	2021	-66 -789	N
ATOM 7599	CA THR C 138	-6.852	1.031	-14.490	1.00	36.79	C
ANISOU 7599	CA THR C 138	3051	7408	3518	2073	-217 -844	C
ATOM 7600	C THR C 138	-5.619	0.129	-14.538	1.00	40.05	C
ANISOU 7600	C THR C 138	3279	8023	3916	2351	-217 -886	C
ATOM 7601	O THR C 138	-4.923	0.035	-15.554	1.00	42.67	O
ANISOU 7601	O THR C 138	3477	8665	4071	2479	-101 -885	O
ATOM 7602	CB THR C 138	-8.127	0.201	-14.323	1.00	35.15	C
ANISOU 7602	CB THR C 138	3186	6750	3421	2152	-323 -1059	C
ATOM 7603	OG1 THR C 138	-8.355	-0.563	-15.519	1.00	36.71	O
ANISOU 7603	OG1 THR C 138	3447	7007	3493	2414	-293 -1279	O
ATOM 7604	CG2 THR C 138	-9.328	1.111	-14.074	1.00	32.14	C
ANISOU 7604	CG2 THR C 138	3015	6122	3075	1828	-321 -955	C
ATOM 7605	H THR C 138	-7.229	1.364	-16.380	1.00	45.92	H
ATOM 7606	HA THR C 138	-6.769	1.625	-13.728	1.00	44.14	H
ATOM 7607	HB THR C 138	-8.030	-0.398	-13.567	1.00	42.18	H
ATOM 7608	HG1 THR C 138	-9.053	-1.022	-15.438	1.00	44.05	H
ATOM 7609	HG21 THR C 138	-10.131	0.578	-13.970	1.00	38.57	H
ATOM 7610	HG22 THR C 138	-9.187	1.632	-13.268	1.00	38.57	H

ATOM 7611	HG23 THR C 138	-9.446	1.716	-14.823	1.00	38.57		H
ATOM 7612	N GLY C 139	-5.351	-0.542	-13.417	1.00	39.81		N
ANISOU 7612	N GLY C 139	3295	7765	4066	2401	-358 -893		N
ATOM 7613	CA GLY C 139	-4.284	-1.513	-13.322	1.00	42.89		C
ANISOU 7613	CA GLY C 139	3597	8222	4479	2630	-377 -924		C
ATOM 7614	C GLY C 139	-3.030	-1.014	-12.628	1.00	44.32		C
ANISOU 7614	C GLY C 139	3465	8679	4695	2506	-382 -652		C
ATOM 7615	O GLY C 139	-2.294	-1.823	-12.047	1.00	46.20		O
ANISOU 7615	O GLY C 139	3652	8863	5038	2653	-456 -644		O
ATOM 7616	H GLY C 139	-5.789	-0.443	-12.684	1.00	47.77		H
ATOM 7617	HA2 GLY C 139	-4.607	-2.288	-12.835	1.00	51.47		H
ATOM 7618	HA3 GLY C 139	-4.039	-1.800	-14.215	1.00	51.47		H
ATOM 7619	N SER C 140	-2.755	0.286	-12.698	1.00	43.89		N
ANISOU 7619	N SER C 140	3205	8913	4559	2218	-325 -411		N
ATOM 7620	CA SER C 140	-1.616	0.898	-12.028	1.00	45.44		C
ANISOU 7620	CA SER C 140	3123	9357	4786	2000	-375 -107		C
ATOM 7621	C SER C 140	-2.105	1.721	-10.848	1.00	42.70		C
ANISOU 7621	C SER C 140	2874	8809	4541	1639	-560 38		C
ATOM 7622	O SER C 140	-3.290	2.031	-10.727	1.00	39.79		O
ANISOU 7622	O SER C 140	2853	8073	4192	1487	-567 -68		O
ATOM 7623	CB SER C 140	-0.813	1.787	-12.987	1.00	47.93		C
ANISOU 7623	CB SER C 140	3156	10145	4911	1873	-220 112		C
ATOM 7624	OG SER C 140	-0.313	1.050	-14.086	1.00	50.92		O
ANISOU 7624	OG SER C 140	3462	10742	5141	2213	-63 -12		O
ATOM 7625	H SER C 140	-3.230	0.849	-13.142	1.00	52.67		H
ATOM 7626	HA SER C 140	-1.028	0.203	-11.692	1.00	54.53		H
ATOM 7627	HB2 SER C 140	-1.392	2.491	-13.320	1.00	57.52		H
ATOM 7628	HB3 SER C 140	-0.067	2.176	-12.504	1.00	57.52		H
ATOM 7629	HG SER C 140	0.122	1.555	-14.597	1.00	61.10		H
ATOM 7630	N ASN C 141	-1.172	2.090	-9.978	1.00	44.02		N
ANISOU 7630	N ASN C 141	2878	9085	4762	1415	-685 289		N
ATOM 7631	CA ASN C 141	-1.542	2.823	-8.775	1.00	42.32		C
ANISOU 7631	CA ASN C 141	2926	8539	4616	1009	-859 408		C
ATOM 7632	C ASN C 141	-2.071	4.199	-9.145	1.00	40.74		C
ANISOU 7632	C ASN C 141	2869	8296	4314	653	-812 512		C
ATOM 7633	O ASN C 141	-1.490	4.900	-9.979	1.00	42.56		O
ANISOU 7633	O ASN C 141	2833	8904	4434	548	-733 689		O
ATOM 7634	CB ASN C 141	-0.352	2.941	-7.830	1.00	44.27		C
ANISOU 7634	CB ASN C 141	2949	8955	4917	835	-1038 667		C
ATOM 7635	CG ASN C 141	-0.141	1.682	-7.029	1.00	44.76		C
ANISOU 7635	CG ASN C 141	3025	8863	5117	1103	-1151 568		C
ATOM 7636	OD1 ASN C 141	-0.981	0.783	-7.049	1.00	43.13		O
ANISOU 7636	OD1 ASN C 141	3057	8353	4979	1364	-1121 309		O
ATOM 7637	ND2 ASN C 141	0.972	1.610	-6.307	1.00	47.17		N
ANISOU 7637	ND2 ASN C 141	3156	9279	5488	992	-1271 775		N
ATOM 7638	H ASN C 141	-0.331	1.930	-10.058	1.00	52.82		H
ATOM 7639	HA ASN C 141	-2.247	2.343	-8.314	1.00	50.79		H
ATOM 7640	HB2 ASN C 141	0.451	3.108	-8.348	1.00	53.13		H
ATOM 7641	HB3 ASN C 141	-0.508	3.671	-7.211	1.00	53.13		H
ATOM 7642	HD21 ASN C 141	1.134	0.910	-5.835	1.00	56.60		H
ATOM 7643	HD22 ASN C 141	1.532	2.263	-6.313	1.00	56.60		H
ATOM 7644	N ALA C 142	-3.180	4.574	-8.517	1.00	37.92		N
ANISOU 7644	N ALA C 142	2929	7488	3992	481	-862 419		N

ATOM 7645	CA	ALA C 142	-3.905	5.788	-8.840	1.00	36.58		C
ANISOU 7645	CA	ALA C 142	2969	7184	3744	213	-816	470	C
ATOM 7646	C	ALA C 142	-4.237	6.546	-7.561	1.00	36.05		C
ANISOU 7646	C	ALA C 142	3246	6750	3701	-109	-978	542	C
ATOM 7647	O	ALA C 142	-4.389	5.955	-6.485	1.00	34.92		O
ANISOU 7647	O	ALA C 142	3266	6373	3628	-70	-1080	470	O
ATOM 7648	CB	ALA C 142	-5.195	5.464	-9.617	1.00	34.40		C
ANISOU 7648	CB	ALA C 142	2884	6733	3455	424	-661	238	C
ATOM 7649	H	ALA C 142	-3.540	4.124	-7.880	1.00	45.51		H
ATOM 7650	HA	ALA C 142	-3.349	6.357	-9.396	1.00	43.89		H
ATOM 7651	HB1	ALA C 142	-4.961	5.007	-10.440	1.00	41.29		H
ATOM 7652	HB2	ALA C 142	-5.758	4.895	-9.070	1.00	41.29		H
ATOM 7653	HB3	ALA C 142	-5.658	6.293	-9.819	1.00	41.29		H
ATOM 7654	N	THR C 143	-4.338	7.865	-7.693	1.00	35.79		N
ANISOU 7654	N	THR C 143	3339	6667	3594	-422	-1009	685	N
ATOM 7655	CA	THR C 143	-4.682	8.754	-6.596	1.00	35.34		C
ANISOU 7655	CA	THR C 143	3665	6246	3518	-716	-1160	733	C
ATOM 7656	C	THR C 143	-5.916	9.552	-6.977	1.00	33.93		C
ANISOU 7656	C	THR C 143	3801	5794	3295	-744	-1054	648	C
ATOM 7657	O	THR C 143	-6.081	9.952	-8.136	1.00	33.73		O
ANISOU 7657	O	THR C 143	3647	5935	3233	-727	-936	691	O
ATOM 7658	CB	THR C 143	-3.534	9.724	-6.260	1.00	38.71		C
ANISOU 7658	CB	THR C 143	3998	6810	3898	-1108	-1370	1015	C
ATOM 7659	OG1	THR C 143	-3.242	10.554	-7.395	1.00	39.83		O
ANISOU 7659	OG1	THR C 143	3949	7201	3982	-1255	-1315	1189	O
ATOM 7660	CG2	THR C 143	-2.276	8.963	-5.845	1.00	41.12		C
ANISOU 7660	CG2	THR C 143	3950	7421	4252	-1086	-1487	1142	C
ATOM 7661	H	THR C 143	-4.207	8.279	-8.436	1.00	42.95		H
ATOM 7662	HA	THR C 143	-4.884	8.230	-5.806	1.00	42.41		H
ATOM 7663	HB	THR C 143	-3.803	10.287	-5.517	1.00	46.45		H
ATOM 7664	HG1	THR C 143	-2.616	11.083	-7.211	1.00	47.79		H
ATOM 7665	HG21	THR C 143	-1.564	9.588	-5.636	1.00	49.34		H
ATOM 7666	HG22	THR C 143	-2.460	8.422	-5.061	1.00	49.34		H
ATOM 7667	HG23	THR C 143	-1.986	8.384	-6.567	1.00	49.34		H
ATOM 7668	N	ILE C 144	-6.795	9.756	-6.005	1.00	32.23		N
ANISOU 7668	N	ILE C 144	3987	5185	3075	-762	-1086	539	N
ATOM 7669	CA	ILE C 144	-7.871	10.732	-6.114	1.00	31.29		C
ANISOU 7669	CA	ILE C 144	4204	4779	2905	-816	-1021	500	C
ATOM 7670	C	ILE C 144	-7.604	11.757	-5.022	1.00	32.80		C
ANISOU 7670	C	ILE C 144	4738	4703	3021	-1108	-1220	580	C
ATOM 7671	O	ILE C 144	-7.919	11.535	-3.849	1.00	32.45		O
ANISOU 7671	O	ILE C 144	4958	4425	2945	-1079	-1278	486	O
ATOM 7672	CB	ILE C 144	-9.263	10.104	-5.981	1.00	28.86		C
ANISOU 7672	CB	ILE C 144	4074	4260	2631	-536	-860	302	C
ATOM 7673	CG1	ILE C 144	-9.561	9.256	-7.223	1.00	27.84		C
ANISOU 7673	CG1	ILE C 144	3657	4363	2558	-293	-703	225	C
ATOM 7674	CG2	ILE C 144	-10.333	11.194	-5.794	1.00	28.44		C
ANISOU 7674	CG2	ILE C 144	4397	3892	2517	-579	-809	283	C
ATOM 7675	CD1	ILE C 144	-10.981	8.762	-7.325	1.00	26.22		C
ANISOU 7675	CD1	ILE C 144	3596	3977	2391	-73	-568	80	C
ATOM 7676	H	ILE C 144	-6.789	9.333	-5.257	1.00	38.68		H
ATOM 7677	HA	ILE C 144	-7.817	11.177	-6.973	1.00	37.55		H
ATOM 7678	HB	ILE C 144	-9.270	9.526	-5.202	1.00	34.63		H

ATOM	7679	HG12	ILE	C	144	-9.378	9.789	-8.012	1.00	33.41		H
ATOM	7680	HG13	ILE	C	144	-8.980	8.479	-7.213	1.00	33.41		H
ATOM	7681	HG21	ILE	C	144	-11.202	10.772	-5.713	1.00	34.13		H
ATOM	7682	HG22	ILE	C	144	-10.133	11.698	-4.990	1.00	34.13		H
ATOM	7683	HG23	ILE	C	144	-10.321	11.783	-6.565	1.00	34.13		H
ATOM	7684	HD11	ILE	C	144	-11.579	9.525	-7.352	1.00	31.47		H
ATOM	7685	HD12	ILE	C	144	-11.076	8.239	-8.136	1.00	31.47		H
ATOM	7686	HD13	ILE	C	144	-11.180	8.212	-6.551	1.00	31.47		H
ATOM	7687	N	THR	C	145	-7.000	12.876	-5.405	1.00	34.83		N
ANISOU	7687	N	THR	C	145	5002	4998	3235	-1400	-1343	765	N
ATOM	7688	CA	THR	C	145	-6.743	13.968	-4.474	1.00	36.83		C
ANISOU	7688	CA	THR	C	145	5636	4951	3405	-1708	-1577	839	C
ATOM	7689	C	THR	C	145	-8.049	14.698	-4.180	1.00	36.24		C
ANISOU	7689	C	THR	C	145	6042	4457	3270	-1599	-1494	690	C
ATOM	7690	O	THR	C	145	-8.394	15.669	-4.865	1.00	36.61		O
ANISOU	7690	O	THR	C	145	6210	4394	3306	-1678	-1481	758	O
ATOM	7691	CB	THR	C	145	-5.701	14.918	-5.062	1.00	39.68		C
ANISOU	7691	CB	THR	C	145	5843	5479	3755	-2080	-1762	1117	C
ATOM	7692	OG1	THR	C	145	-4.553	14.166	-5.473	1.00	40.65		O
ANISOU	7692	OG1	THR	C	145	5441	6076	3929	-2110	-1781	1273	O
ATOM	7693	CG2	THR	C	145	-5.279	15.953	-4.035	1.00	42.33		C
ANISOU	7693	CG2	THR	C	145	6586	5490	4006	-2441	-2075	1201	C
ATOM	7694	H	THR	C	145	-6.728	13.028	-6.206	1.00	41.80		H
ATOM	7695	HA	THR	C	145	-6.397	13.609	-3.642	1.00	44.19		H
ATOM	7696	HB	THR	C	145	-6.078	15.379	-5.827	1.00	47.62		H
ATOM	7697	HG1	THR	C	145	-4.772	13.601	-6.055	1.00	48.78		H
ATOM	7698	HG21	THR	C	145	-4.618	16.550	-4.419	1.00	50.79		H
ATOM	7699	HG22	THR	C	145	-6.048	16.473	-3.753	1.00	50.79		H
ATOM	7700	HG23	THR	C	145	-4.895	15.513	-3.260	1.00	50.79		H
ATOM	7701	N	PHE	C	146	-8.778	14.226	-3.161	1.00	34.79		N
ANISOU	7701	N	PHE	C	146	6119	4057	3041	-1403	-1433	506	N
ATOM	7702	CA	PHE	C	146	-10.139	14.697	-2.920	1.00	33.93		C
ANISOU	7702	CA	PHE	C	146	6388	3630	2874	-1197	-1286	360	C
ATOM	7703	C	PHE	C	146	-10.179	16.188	-2.606	1.00	36.41		C
ANISOU	7703	C	PHE	C	146	7158	3594	3081	-1395	-1447	393	C
ATOM	7704	O	PHE	C	146	-11.189	16.845	-2.873	1.00	36.26		O
ANISOU	7704	O	PHE	C	146	7383	3355	3038	-1236	-1323	331	O
ATOM	7705	CB	PHE	C	146	-10.775	13.887	-1.780	1.00	33.32		C
ANISOU	7705	CB	PHE	C	146	6471	3448	2742	-977	-1205	202	C
ATOM	7706	CG	PHE	C	146	-12.259	14.112	-1.613	1.00	32.74		C
ANISOU	7706	CG	PHE	C	146	6665	3160	2617	-694	-992	77	C
ATOM	7707	CD1	PHE	C	146	-13.112	14.068	-2.705	1.00	30.37		C
ANISOU	7707	CD1	PHE	C	146	6194	2936	2409	-510	-792	82	C
ATOM	7708	CD2	PHE	C	146	-12.803	14.345	-0.359	1.00	32.88		C
ANISOU	7708	CD2	PHE	C	146	7084	2933	2475	-598	-988	-31	C
ATOM	7709	CE1	PHE	C	146	-14.474	14.274	-2.550	1.00	29.85		C
ANISOU	7709	CE1	PHE	C	146	6327	2710	2304	-246	-600	7	C
ATOM	7710	CE2	PHE	C	146	-14.167	14.544	-0.203	1.00	32.45		C
ANISOU	7710	CE2	PHE	C	146	7229	2737	2362	-303	-768	-117	C
ATOM	7711	CZ	PHE	C	146	-14.999	14.514	-1.298	1.00	30.94		C
ANISOU	7711	CZ	PHE	C	146	6837	2630	2290	-132	-577	-86	C
ATOM	7712	H	PHE	C	146	-8.505	13.635	-2.600	1.00	41.74		H
ATOM	7713	HA	PHE	C	146	-10.667	14.548	-3.720	1.00	40.72		H

ATOM	7714	HB2 PHE C 146	-10.638	12.943	-1.955	1.00	39.99		H
ATOM	7715	HB3 PHE C 146	-10.344	14.132	-0.946	1.00	39.99		H
ATOM	7716	HD1 PHE C 146	-12.764	13.913	-3.554	1.00	36.44		H
ATOM	7717	HD2 PHE C 146	-12.247	14.373	0.385	1.00	39.45		H
ATOM	7718	HE1 PHE C 146	-15.035	14.247	-3.292	1.00	35.82		H
ATOM	7719	HE2 PHE C 146	-14.519	14.706	0.643	1.00	38.94		H
ATOM	7720	HZ PHE C 146	-15.914	14.646	-1.193	1.00	37.13		H
ATOM	7721	N SER C 147	-9.100	16.750	-2.058	1.00	39.03		N
ANISOU	7721	N SER C 147	7620	3858	3351	-1741	-1741	500	N
ATOM	7722	CA SER C 147	-9.079	18.197	-1.844	1.00	41.90		C
ANISOU	7722	CA SER C 147	8451	3848	3622	-1963	-1946	538	C
ATOM	7723	C SER C 147	-9.225	18.958	-3.159	1.00	42.23		C
ANISOU	7723	C SER C 147	8377	3917	3753	-2035	-1908	685	C
ATOM	7724	O SER C 147	-9.799	20.056	-3.184	1.00	43.79		O
ANISOU	7724	O SER C 147	8988	3749	3901	-2036	-1958	660	O
ATOM	7725	CB SER C 147	-7.792	18.623	-1.131	1.00	45.03		C
ANISOU	7725	CB SER C 147	8963	4195	3949	-2390	-2322	670	C
ATOM	7726	OG SER C 147	-6.643	18.302	-1.885	1.00	45.47		O
ANISOU	7726	OG SER C 147	8493	4661	4121	-2643	-2418	922	O
ATOM	7727	H SER C 147	-8.391	16.332	-1.809	1.00	46.84		H
ATOM	7728	HA SER C 147	-9.827	18.440	-1.277	1.00	50.28		H
ATOM	7729	HB2 SER C 147	-7.816	19.582	-0.990	1.00	54.03		H
ATOM	7730	HB3 SER C 147	-7.743	18.166	-0.276	1.00	54.03		H
ATOM	7731	HG SER C 147	-6.606	17.473	-2.013	1.00	54.56		H
ATOM	7732	N ASN C 148	-8.719	18.400	-4.260	1.00	41.15		N
ANISOU	7732	N ASN C 148	7695	4208	3732	-2077	-1822	841	N
ATOM	7733	CA ASN C 148	-8.897	19.053	-5.553	1.00	41.63		C
ANISOU	7733	CA ASN C 148	7619	4344	3855	-2135	-1766	995	C
ATOM	7734	C ASN C 148	-10.376	19.224	-5.875	1.00	40.44		C
ANISOU	7734	C ASN C 148	7671	3983	3712	-1778	-1521	839	C
ATOM	7735	O ASN C 148	-10.805	20.296	-6.321	1.00	41.13		O
ANISOU	7735	O ASN C 148	8003	3826	3798	-1828	-1565	911	O
ATOM	7736	CB ASN C 148	-8.199	18.255	-6.657	1.00	40.77		C
ANISOU	7736	CB ASN C 148	6882	4783	3827	-2156	-1661	1149	C
ATOM	7737	CG ASN C 148	-6.678	18.353	-6.590	1.00	43.12		C
ANISOU	7737	CG ASN C 148	6916	5344	4124	-2543	-1911	1399	C
ATOM	7738	OD1 ASN C 148	-6.122	19.253	-5.952	1.00	45.97		O
ANISOU	7738	OD1 ASN C 148	7569	5459	4439	-2889	-2210	1517	O
ATOM	7739	ND2 ASN C 148	-5.998	17.430	-7.270	1.00	42.54		N
ANISOU	7739	ND2 ASN C 148	6290	5779	4094	-2481	-1799	1490	N
ATOM	7740	H ASN C 148	-8.279	17.661	-4.285	1.00	49.38		H
ATOM	7741	HA ASN C 148	-8.493	19.935	-5.520	1.00	49.96		H
ATOM	7742	HB2 ASN C 148	-8.443	17.320	-6.572	1.00	48.93		H
ATOM	7743	HB3 ASN C 148	-8.483	18.595	-7.520	1.00	48.93		H
ATOM	7744	HD21 ASN C 148	-5.138	17.439	-7.266	1.00	51.05		H
ATOM	7745	HD22 ASN C 148	-6.419	16.825	-7.713	1.00	51.05		H
ATOM	7746	N HIS C 149	-11.175	18.178	-5.638	1.00	36.95		N
ANISOU	7746	N HIS C 149	7125	3629	3284	-1424	-1278	650	N
ATOM	7747	CA HIS C 149	-12.603	18.225	-5.936	1.00	35.44		C
ANISOU	7747	CA HIS C 149	7055	3302	3107	-1084	-1040	537	C
ATOM	7748	C HIS C 149	-13.365	19.055	-4.920	1.00	36.93		C
ANISOU	7748	C HIS C 149	7807	3034	3190	-958	-1066	408	C
ATOM	7749	O HIS C 149	-14.293	19.790	-5.272	1.00	37.45		O

ANISOU 7749	O	HIS C 149	8082	2890	3257	-790	-973	402	O
ATOM 7750	CB	HIS C 149	-13.162	16.808	-5.972	1.00	32.50		C
ANISOU 7750	CB	HIS C 149	6382	3180	2787	-793	-814	414	C
ATOM 7751	CG	HIS C 149	-12.467	15.940	-6.964	1.00	31.40		C
ANISOU 7751	CG	HIS C 149	5737	3465	2728	-847	-780	494	C
ATOM 7752	ND1	HIS C 149	-12.896	15.817	-8.268	1.00	30.45		N
ANISOU 7752	ND1	HIS C 149	5360	3550	2661	-749	-641	548	N
ATOM 7753	CD2	HIS C 149	-11.345	15.191	-6.861	1.00	31.53		C
ANISOU 7753	CD2	HIS C 149	5468	3749	2763	-969	-870	531	C
ATOM 7754	CE1	HIS C 149	-12.080	15.007	-8.918	1.00	30.09		C
ANISOU 7754	CE1	HIS C 149	4913	3878	2643	-789	-634	590	C
ATOM 7755	NE2	HIS C 149	-11.130	14.615	-8.088	1.00	30.76		N
ANISOU 7755	NE2	HIS C 149	4961	4009	2718	-908	-765	585	N
ATOM 7756	H	HIS C 149	-10.910	17.431	-5.305	1.00	44.34		H
ATOM 7757	HA	HIS C 149	-12.734	18.624	-6.811	1.00	42.52		H
ATOM 7758	HB2	HIS C 149	-13.058	16.405	-5.096	1.00	39.00		H
ATOM 7759	HB3	HIS C 149	-14.101	16.844	-6.212	1.00	39.00		H
ATOM 7760	HD1	HIS C 149	-13.591	16.198	-8.602	1.00	36.54		H
ATOM 7761	HD2	HIS C 149	-10.824	15.079	-6.099	1.00	37.84		H
ATOM 7762	HE1	HIS C 149	-12.160	14.757	-9.811	1.00	36.11		H
ATOM 7763	N	VAL C 150	-13.007	18.920	-3.652	1.00	37.86		N
ANISOU 7763	N	VAL C 150	8178	3008	3201	-1007	-1182	301	N
ATOM 7764	CA	VAL C 150	-13.620	19.750	-2.628	1.00	40.02		C
ANISOU 7764	CA	VAL C 150	9031	2851	3322	-880	-1221	159	C
ATOM 7765	C	VAL C 150	-13.501	21.219	-3.016	1.00	42.93		C
ANISOU 7765	C	VAL C 150	9752	2881	3678	-1055	-1413	247	C
ATOM 7766	O	VAL C 150	-14.496	21.948	-3.064	1.00	43.91		O
ANISOU 7766	O	VAL C 150	10191	2724	3769	-803	-1310	179	O
ATOM 7767	CB	VAL C 150	-12.974	19.453	-1.265	1.00	41.11		C
ANISOU 7767	CB	VAL C 150	9389	2914	3318	-998	-1387	60	C
ATOM 7768	CG1	VAL C 150	-13.435	20.450	-0.227	1.00	44.12		C
ANISOU 7768	CG1	VAL C 150	10365	2894	3505	-879	-1454	-72	C
ATOM 7769	CG2	VAL C 150	-13.311	17.981	-0.856	1.00	38.28		C
ANISOU 7769	CG2	VAL C 150	8713	2853	2980	-771	-1176	-20	C
ATOM 7770	H	VAL C 150	-12.421	18.363	-3.360	1.00	45.44		H
ATOM 7771	HA	VAL C 150	-14.563	19.532	-2.567	1.00	48.02		H
ATOM 7772	HB	VAL C 150	-12.011	19.528	-1.348	1.00	49.34		H
ATOM 7773	HG11	VAL C 150	-13.014	20.240	0.621	1.00	52.95		H
ATOM 7774	HG12	VAL C 150	-13.181	21.341	-0.512	1.00	52.95		H
ATOM 7775	HG13	VAL C 150	-14.400	20.392	-0.142	1.00	52.95		H
ATOM 7776	HG21	VAL C 150	-12.905	17.791	0.004	1.00	45.94		H
ATOM 7777	HG22	VAL C 150	-14.274	17.883	-0.796	1.00	45.94		H
ATOM 7778	HG23	VAL C 150	-12.959	17.378	-1.529	1.00	45.94		H
ATOM 7779	N	ASN C 151	-12.284	21.666	-3.331	1.00	44.81		N
ANISOU 7779	N	ASN C 151	9920	3152	3952	-1491	-1703	428	N
ATOM 7780	CA	ASN C 151	-12.068	23.079	-3.650	1.00	48.04		C
ANISOU 7780	CA	ASN C 151	10625	3275	4353	-1700	-1933	536	C
ATOM 7781	C	ASN C 151	-12.832	23.480	-4.900	1.00	47.29		C
ANISOU 7781	C	ASN C 151	10398	3193	4378	-1557	-1771	642	C
ATOM 7782	O	ASN C 151	-13.550	24.486	-4.910	1.00	49.29		O
ANISOU 7782	O	ASN C 151	10927	3200	4602	-1373	-1759	568	O
ATOM 7783	CB	ASN C 151	-10.583	23.364	-3.846	1.00	51.19		C
ANISOU 7783	CB	ASN C 151	10849	3818	4782	-2217	-2267	771	C

ATOM 7784 CG ASN C 151	-9.823	23.381	-2.557	1.00	55.03		C
ANISOU 7784 CG ASN C 151	11545	4242	5122	-2367	-2496	705	C
ATOM 7785 OD1 ASN C 151	-10.208	24.052	-1.598	1.00	57.42		O
ANISOU 7785 OD1 ASN C 151	12289	4266	5264	-2198	-2549	551	O
ATOM 7786 ND2 ASN C 151	-8.735	22.638	-2.518	1.00	55.26		N
ANISOU 7786 ND2 ASN C 151	11235	4562	5200	-2667	-2621	852	N
ATOM 7787 H ASN C 151	-11.575	21.179	-3.366	1.00	53.77		H
ATOM 7788 HA ASN C 151	-12.386	23.624	-2.913	1.00	57.65		H
ATOM 7789 HB2 ASN C 151	-10.200	22.674	-4.410	1.00	61.43		H
ATOM 7790 HB3 ASN C 151	-10.480	24.232	-4.266	1.00	61.43		H
ATOM 7791 HD21 ASN C 151	-8.259	22.609	-1.802	1.00	66.31		H
ATOM 7792 HD22 ASN C 151	-8.501	22.182	-3.208	1.00	66.31		H
ATOM 7793 N ALA C 152	-12.663	22.715	-5.981	1.00	44.76		N
ANISOU 7793 N ALA C 152	9539	3293	4176	-1593	-1626	795	N
ATOM 7794 CA ALA C 152	-13.383	23.002	-7.216	1.00	44.15		C
ANISOU 7794 CA ALA C 152	9285	3298	4192	-1457	-1468	909	C
ATOM 7795 C ALA C 152	-14.877	23.130	-6.952	1.00	43.31		C
ANISOU 7795 C ALA C 152	9442	2949	4064	-993	-1233	731	C
ATOM 7796 O ALA C 152	-15.518	24.097	-7.379	1.00	44.98		O
ANISOU 7796 O ALA C 152	9855	2928	4306	-890	-1235	773	O
ATOM 7797 CB ALA C 152	-13.105	21.905	-8.244	1.00	41.22		C
ANISOU 7797 CB ALA C 152	8269	3494	3901	-1454	-1292	1003	C
ATOM 7798 H ALA C 152	-12.143	22.032	-6.021	1.00	53.72		H
ATOM 7799 HA ALA C 152	-13.067	23.844	-7.580	1.00	52.98		H
ATOM 7800 HB1 ALA C 152	-13.589	22.107	-9.060	1.00	49.47		H
ATOM 7801 HB2 ALA C 152	-12.152	21.874	-8.422	1.00	49.47		H
ATOM 7802 HB3 ALA C 152	-13.402	21.054	-7.885	1.00	49.47		H
ATOM 7803 N TRP C 153	-15.448	22.154	-6.248	1.00	41.13		N
ANISOU 7803 N TRP C 153	9096	2785	3745	-697	-1022	536	N
ATOM 7804 CA TRP C 153	-16.861	22.214	-5.900	1.00	40.81		C
ANISOU 7804 CA TRP C 153	9259	2576	3669	-251	-785	398	C
ATOM 7805 C TRP C 153	-17.166	23.487	-5.119	1.00	44.43		C
ANISOU 7805 C TRP C 153	10222	2642	4016	-155	-892	279	C
ATOM 7806 O TRP C 153	-18.121	24.208	-5.435	1.00	45.68		O
ANISOU 7806 O TRP C 153	10465	2695	4196	98	-782	271	O
ATOM 7807 CB TRP C 153	-17.257	20.966	-5.096	1.00	39.11		C
ANISOU 7807 CB TRP C 153	8885	2571	3407	-21	-588	239	C
ATOM 7808 CG TRP C 153	-17.240	19.655	-5.876	1.00	35.18		C
ANISOU 7808 CG TRP C 153	7805	2537	3026	-14	-441	294	C
ATOM 7809 CD1 TRP C 153	-17.100	19.489	-7.228	1.00	34.05		C
ANISOU 7809 CD1 TRP C 153	7286	2655	2996	-115	-418	440	C
ATOM 7810 CD2 TRP C 153	-17.370	18.338	-5.326	1.00	33.03		C
ANISOU 7810 CD2 TRP C 153	7304	2495	2749	107	-319	197	C
ATOM 7811 NE1 TRP C 153	-17.135	18.141	-7.549	1.00	31.42		N
ANISOU 7811 NE1 TRP C 153	6535	2681	2722	-46	-293	408	N
ATOM 7812 CE2 TRP C 153	-17.297	17.420	-6.396	1.00	31.25		C
ANISOU 7812 CE2 TRP C 153	6597	2629	2647	81	-242	269	C
ATOM 7813 CE3 TRP C 153	-17.537	17.846	-4.029	1.00	33.09		C
ANISOU 7813 CE3 TRP C 153	7485	2436	2651	231	-280	62	C
ATOM 7814 CZ2 TRP C 153	-17.394	16.044	-6.207	1.00	28.66		C
ANISOU 7814 CZ2 TRP C 153	5985	2545	2359	175	-150	204	C
ATOM 7815 CZ3 TRP C 153	-17.630	16.468	-3.844	1.00	31.19		C
ANISOU 7815 CZ3 TRP C 153	6923	2469	2457	304	-180	31	C

ATOM 7816 CH2 TRP C 153	-17.557	15.590	-4.928	1.00	29.11		C
ANISOU 7816 CH2 TRP C 153	6209	2513	2339	274	-128	98	C
ATOM 7817 H TRP C 153	-15.040	21.452	-5.963	1.00	49.35		H
ATOM 7818 HA TRP C 153	-17.388	22.227	-6.714	1.00	48.97		H
ATOM 7819 HB2 TRP C 153	-16.642	20.871	-4.353	1.00	46.94		H
ATOM 7820 HB3 TRP C 153	-18.158	21.092	-4.758	1.00	46.94		H
ATOM 7821 HD1 TRP C 153	-16.996	20.180	-7.842	1.00	40.86		H
ATOM 7822 HE1 TRP C 153	-17.065	17.812	-8.341	1.00	37.70		H
ATOM 7823 HE3 TRP C 153	-17.587	18.426	-3.305	1.00	39.71		H
ATOM 7824 HZ2 TRP C 153	-17.344	15.455	-6.925	1.00	34.39		H
ATOM 7825 HZ3 TRP C 153	-17.742	16.128	-2.985	1.00	37.42		H
ATOM 7826 HH2 TRP C 153	-17.621	14.675	-4.775	1.00	34.93		H
ATOM 7827 N LYS C 154	-16.343	23.796	-4.111	1.00	46.50		N
ANISOU 7827 N LYS C 154	10752	2769	4148	-355	-1115	189	N
ATOM 7828 CA LYS C 154	-16.552	25.012	-3.330	1.00	50.51		C
ANISOU 7828 CA LYS C 154	11697	2987	4507	-265	-1237	79	C
ATOM 7829 C LYS C 154	-16.692	26.228	-4.239	1.00	53.78		C
ANISOU 7829 C LYS C 154	12193	3222	5017	-336	-1352	197	C
ATOM 7830 O LYS C 154	-17.619	27.031	-4.087	1.00	55.13		O
ANISOU 7830 O LYS C 154	12597	3209	5141	-35	-1265	119	O
ATOM 7831 CB LYS C 154	-15.400	25.219	-2.345	1.00	52.74		C
ANISOU 7831 CB LYS C 154	12214	3175	4648	-573	-1536	48	C
ATOM 7832 CG LYS C 154	-15.370	24.225	-1.182	1.00	51.51		C
ANISOU 7832 CG LYS C 154	12068	3143	4361	-456	-1436	-78	C
ATOM 7833 CD LYS C 154	-14.183	24.465	-0.235	1.00	53.99		C
ANISOU 7833 CD LYS C 154	12595	3373	4546	-779	-1755	-62	C
ATOM 7834 CE LYS C 154	-14.024	25.937	0.118	1.00	58.93		C
ANISOU 7834 CE LYS C 154	13662	3677	5053	-850	-2002	-67	C
ATOM 7835 NZ LYS C 154	-13.286	26.155	1.397	1.00	62.06		N
ANISOU 7835 NZ LYS C 154	14365	3952	5264	-998	-2235	-96	N
ATOM 7836 H LYS C 154	-15.668	23.324	-3.865	1.00	55.80		H
ATOM 7837 HA LYS C 154	-17.372	24.923	-2.819	1.00	60.61		H
ATOM 7838 HB2 LYS C 154	-14.562	25.134	-2.826	1.00	63.29		H
ATOM 7839 HB3 LYS C 154	-15.471	26.110	-1.968	1.00	63.29		H
ATOM 7840 HG2 LYS C 154	-16.188	24.314	-0.668	1.00	61.81		H
ATOM 7841 HG3 LYS C 154	-15.295	23.325	-1.536	1.00	61.81		H
ATOM 7842 HD2 LYS C 154	-14.327	23.971	0.587	1.00	64.79		H
ATOM 7843 HD3 LYS C 154	-13.366	24.167	-0.666	1.00	64.79		H
ATOM 7844 HE2 LYS C 154	-13.532	26.380	-0.591	1.00	70.72		H
ATOM 7845 HE3 LYS C 154	-14.904	26.336	0.209	1.00	70.72		H
ATOM 7846 HZ1 LYS C 154	-13.217	27.027	1.563	1.00	74.48		H
ATOM 7847 HZ2 LYS C 154	-13.720	25.766	2.069	1.00	74.48		H
ATOM 7848 HZ3 LYS C 154	-12.469	25.806	1.340	1.00	74.48		H
ATOM 7849 N SER C 155	-15.781	26.370	-5.207	1.00	54.29		N
ANISOU 7849 N SER C 155	12042	3367	5218	-734	-1545	412	N
ATOM 7850 CA SER C 155	-15.765	27.544	-6.074	1.00	56.53		C
ANISOU 7850 CA SER C 155	12387	3495	5596	-866	-1696	565	C
ATOM 7851 C SER C 155	-17.025	27.679	-6.919	1.00	55.09		C
ANISOU 7851 C SER C 155	12079	3328	5524	-519	-1437	602	C
ATOM 7852 O SER C 155	-17.181	28.701	-7.599	1.00	56.86		O
ANISOU 7852 O SER C 155	12379	3395	5828	-571	-1543	722	O
ATOM 7853 CB SER C 155	-14.537	27.503	-6.990	1.00	55.85		C
ANISOU 7853 CB SER C 155	11988	3611	5621	-1367	-1916	841	C

ATOM 7854	OG SER C 155	-14.681	26.519	-8.002	1.00	51.59		O
ANISOU 7854	OG SER C 155	10985	3422	5195	-1350	-1703	988	O
ATOM 7855	H SER C 155	-15.163	25.797	-5.380	1.00	65.15		H
ATOM 7856	HA SER C 155	-15.694	28.338	-5.521	1.00	67.83		H
ATOM 7857	HB2 SER C 155	-14.429	28.371	-7.409	1.00	67.02		H
ATOM 7858	HB3 SER C 155	-13.754	27.294	-6.457	1.00	67.02		H
ATOM 7859	HG SER C 155	-14.000	26.511	-8.493	1.00	61.91		H
ATOM 7860	N HIS C 156	-17.919	26.685	-6.899	1.00	51.16		N
ANISOU 7860	N HIS C 156	11379	3024	5037	-180	-1119	525	N
ATOM 7861	CA HIS C 156	-19.156	26.712	-7.675	1.00	50.57		C
ANISOU 7861	CA HIS C 156	11134	3018	5062	153	-874	584	C
ATOM 7862	C HIS C 156	-20.385	26.625	-6.775	1.00	52.51		C
ANISOU 7862	C HIS C 156	11530	3220	5202	634	-626	384	C
ATOM 7863	O HIS C 156	-21.443	26.156	-7.201	1.00	48.99		O
ANISOU 7863	O HIS C 156	10840	2953	4821	932	-370	423	O
ATOM 7864	CB HIS C 156	-19.176	25.581	-8.702	1.00	46.34		C
ANISOU 7864	CB HIS C 156	10129	2845	4633	103	-725	750	C
ATOM 7865	CG HIS C 156	-18.133	25.711	-9.767	1.00	46.31		C
ANISOU 7865	CG HIS C 156	9906	2986	4705	-329	-918	1001	C
ATOM 7866	ND1 HIS C 156	-18.178	26.688	-10.739	1.00	48.38		N
ANISOU 7866	ND1 HIS C 156	10142	3182	5056	-448	-1024	1194	N
ATOM 7867	CD2 HIS C 156	-17.022	24.980	-10.021	1.00	44.79		C
ANISOU 7867	CD2 HIS C 156	9469	3053	4496	-667	-1014	1114	C
ATOM 7868	CE1 HIS C 156	-17.137	26.556	-11.542	1.00	48.15		C
ANISOU 7868	CE1 HIS C 156	9849	3393	5052	-846	-1167	1415	C
ATOM 7869	NE2 HIS C 156	-16.420	25.526	-11.128	1.00	46.47		N
ANISOU 7869	NE2 HIS C 156	9487	3398	4772	-979	-1158	1372	N
ATOM 7870	H HIS C 156	-17.826	25.969	-6.431	1.00	61.39		H
ATOM 7871	HA HIS C 156	-19.202	27.552	-8.159	1.00	60.68		H
ATOM 7872	HB2 HIS C 156	-19.027	24.740	-8.243	1.00	55.61		H
ATOM 7873	HB3 HIS C 156	-20.043	25.570	-9.137	1.00	55.61		H
ATOM 7874	HD2 HIS C 156	-16.721	24.246	-9.535	1.00	53.75		H
ATOM 7875	HE1 HIS C 156	-16.942	27.096	-12.273	1.00	57.78		H
ATOM 7876	HE2 HIS C 156	-15.693	25.245	-11.492	1.00	55.77		H
ATOM 7877	N GLY C 157	-20.261	27.077	-5.529	1.00	57.97		N
ANISOU 7877	N GLY C 157	12601	3715	5712	703	-705	200	N
ATOM 7878	CA GLY C 157	-21.389	27.053	-4.623	1.00	61.94		C
ANISOU 7878	CA GLY C 157	13238	4224	6073	1149	-468	49	C
ATOM 7879	C GLY C 157	-21.784	25.675	-4.155	1.00	58.51		C
ANISOU 7879	C GLY C 157	12536	4101	5594	1315	-220	2	C
ATOM 7880	O GLY C 157	-22.898	25.499	-3.655	1.00	62.21		O
ANISOU 7880	O GLY C 157	12975	4680	5982	1690	27	-43	O
ATOM 7881	H GLY C 157	-19.538	27.398	-5.192	1.00	69.57		H
ATOM 7882	HA2 GLY C 157	-21.178	27.587	-3.841	1.00	74.33		H
ATOM 7883	HA3 GLY C 157	-22.156	27.453	-5.062	1.00	74.33		H
ATOM 7884	N MET C 158	-20.899	24.687	-4.310	1.00	50.82		N
ANISOU 7884	N MET C 158	11354	3284	4673	1039	-286	34	N
ATOM 7885	CA MET C 158	-21.161	23.310	-3.910	1.00	44.84		C
ANISOU 7885	CA MET C 158	10339	2803	3896	1159	-87	1	C
ATOM 7886	C MET C 158	-20.413	23.048	-2.605	1.00	46.36		C
ANISOU 7886	C MET C 158	10763	2942	3910	1040	-206	-129	C
ATOM 7887	O MET C 158	-19.247	22.649	-2.602	1.00	45.92		O
ANISOU 7887	O MET C 158	10680	2888	3879	701	-402	-117	O

ATOM 7888 CB MET C 158	-20.741	22.343	-5.013	1.00	41.26		C
ANISOU 7888 CB MET C 158	9493	2558	3624	969	-78	141	C
ATOM 7889 CG MET C 158	-21.643	22.416	-6.244	1.00	40.37		C
ANISOU 7889 CG MET C 158	9105	2572	3664	1126	69	297	C
ATOM 7890 SD MET C 158	-20.996	21.556	-7.687	1.00	37.22		S
ANISOU 7890 SD MET C 158	8252	2470	3420	842	19	498	S
ATOM 7891 CE MET C 158	-21.046	19.850	-7.110	1.00	34.14		C
ANISOU 7891 CE MET C 158	7509	2441	3019	901	165	387	C
ATOM 7892 H MET C 158	-20.119	24.798	-4.654	1.00	60.99		H
ATOM 7893 HA MET C 158	-22.113	23.199	-3.758	1.00	53.81		H
ATOM 7894 HB2 MET C 158	-19.837	22.555	-5.292	1.00	49.51		H
ATOM 7895 HB3 MET C 158	-20.778	21.437	-4.669	1.00	49.51		H
ATOM 7896 HG2 MET C 158	-22.501	22.020	-6.025	1.00	48.45		H
ATOM 7897 HG3 MET C 158	-21.764	23.347	-6.486	1.00	48.45		H
ATOM 7898 HE1 MET C 158	-20.714	19.270	-7.813	1.00	40.96		H
ATOM 7899 HE2 MET C 158	-20.487	19.768	-6.322	1.00	40.96		H
ATOM 7900 HE3 MET C 158	-21.962	19.618	-6.893	1.00	40.96		H
ATOM 7901 N ASN C 159	-21.098	23.257	-1.490	1.00	47.73		N
ANISOU 7901 N ASN C 159	11143	3090	3903	1321	-89	-222	N
ATOM 7902 CA ASN C 159	-20.506	23.069	-0.176	1.00	48.98		C
ANISOU 7902 CA ASN C 159	11532	3198	3880	1243	-195	-317	C
ATOM 7903 C ASN C 159	-20.912	21.718	0.388	1.00	46.47		C
ANISOU 7903 C ASN C 159	10944	3161	3551	1384	13	-311	C
ATOM 7904 O ASN C 159	-22.045	21.268	0.199	1.00	45.48		O
ANISOU 7904 O ASN C 159	10581	3229	3468	1674	276	-252	O
ATOM 7905 CB ASN C 159	-20.933	24.181	0.778	1.00	53.56		C
ANISOU 7905 CB ASN C 159	12544	3551	4256	1455	-224	-403	C
ATOM 7906 CG ASN C 159	-20.555	25.541	0.267	1.00	56.57		C
ANISOU 7906 CG ASN C 159	13215	3626	4653	1316	-457	-408	C
ATOM 7907 OD1 ASN C 159	-19.375	25.832	0.081	1.00	57.06		O
ANISOU 7907 OD1 ASN C 159	13381	3555	4746	928	-754	-385	O
ATOM 7908 ND2 ASN C 159	-21.554	26.388	0.029	1.00	59.51		N
ANISOU 7908 ND2 ASN C 159	13705	3892	5013	1621	-339	-416	N
ATOM 7909 H ASN C 159	-21.920	23.512	-1.469	1.00	57.28		H
ATOM 7910 HA ASN C 159	-19.540	23.089	-0.253	1.00	58.77		H
ATOM 7911 HB2 ASN C 159	-21.897	24.156	0.884	1.00	64.28		H
ATOM 7912 HB3 ASN C 159	-20.499	24.049	1.635	1.00	64.28		H
ATOM 7913 HD21 ASN C 159	-21.386	27.178	-0.265	1.00	71.41		H
ATOM 7914 HD22 ASN C 159	-22.367	26.144	0.168	1.00	71.41		H
ATOM 7915 N LEU C 160	-19.976	21.072	1.072	1.00	45.71		N
ANISOU 7915 N LEU C 160	10865	3094	3410	1159	-125	-348	N
ATOM 7916 CA LEU C 160	-20.233	19.782	1.689	1.00	43.69		C
ANISOU 7916 CA LEU C 160	10365	3079	3156	1251	27	-341	C
ATOM 7917 C LEU C 160	-20.682	19.969	3.134	1.00	46.59		C
ANISOU 7917 C LEU C 160	10970	3404	3328	1459	93	-394	C
ATOM 7918 O LEU C 160	-20.339	20.956	3.790	1.00	50.01		O
ANISOU 7918 O LEU C 160	11796	3599	3609	1431	-59	-465	O
ATOM 7919 CB LEU C 160	-18.984	18.904	1.635	1.00	41.49		C
ANISOU 7919 CB LEU C 160	9937	2877	2950	903	-157	-350	C
ATOM 7920 CG LEU C 160	-18.683	18.287	0.269	1.00	38.45		C
ANISOU 7920 CG LEU C 160	9230	2622	2757	758	-159	-302	C
ATOM 7921 CD1 LEU C 160	-17.272	17.723	0.270	1.00	37.53		C
ANISOU 7921 CD1 LEU C 160	9035	2557	2667	381	-405	-317	C

ATOM 7922 CD2 LEU C 160	-19.705	17.209	-0.051	1.00	35.90		C
ANISOU 7922 CD2 LEU C 160	8552	2566	2521	1010	112	-259	C
ATOM 7923 H LEU C 160	-19.176	21.364	1.194	1.00	54.86		H
ATOM 7924 HA LEU C 160	-20.943	19.332	1.206	1.00	52.43		H
ATOM 7925 HB2 LEU C 160	-18.218	19.443	1.888	1.00	49.79		H
ATOM 7926 HB3 LEU C 160	-19.092	18.177	2.267	1.00	49.79		H
ATOM 7927 HG LEU C 160	-18.738	18.974	-0.414	1.00	46.14		H
ATOM 7928 HD11 LEU C 160	-17.087	17.333	-0.599	1.00	45.04		H
ATOM 7929 HD12 LEU C 160	-16.645	18.441	0.451	1.00	45.04		H
ATOM 7930 HD13 LEU C 160	-17.205	17.043	0.959	1.00	45.04		H
ATOM 7931 HD21 LEU C 160	-20.590	17.607	-0.064	1.00	43.07		H
ATOM 7932 HD22 LEU C 160	-19.500	16.828	-0.919	1.00	43.07		H
ATOM 7933 HD23 LEU C 160	-19.662	16.521	0.631	1.00	43.07		H
ATOM 7934 N GLY C 161	-21.462	19.011	3.617	1.00	45.49		N
ANISOU 7934 N GLY C 161	10595	3497	3193	1665	311	-353	N
ATOM 7935 CA GLY C 161	-21.979	19.071	4.970	1.00	48.60		C
ANISOU 7935 CA GLY C 161	11169	3895	3403	1885	405	-390	C
ATOM 7936 C GLY C 161	-20.879	19.044	6.017	1.00	49.80		C
ANISOU 7936 C GLY C 161	11568	3921	3432	1654	184	-484	C
ATOM 7937 O GLY C 161	-19.697	18.840	5.742	1.00	48.26		O
ANISOU 7937 O GLY C 161	11356	3673	3309	1309	-43	-496	O
ATOM 7938 H GLY C 161	-21.706	18.313	3.177	1.00	54.59		H
ATOM 7939 HA2 GLY C 161	-22.490	19.888	5.083	1.00	58.32		H
ATOM 7940 HA3 GLY C 161	-22.568	18.316	5.124	1.00	58.32		H
ATOM 7941 N SER C 162	-21.306	19.245	7.264	1.00	52.84		N
ANISOU 7941 N SER C 162	12175	4283	3620	1856	256	-539	N
ATOM 7942 CA SER C 162	-20.391	19.325	8.393	1.00	54.97		C
ANISOU 7942 CA SER C 162	12724	4427	3736	1676	56	-631	C
ATOM 7943 C SER C 162	-20.152	17.981	9.070	1.00	53.15		C
ANISOU 7943 C SER C 162	12240	4438	3518	1580	91	-608	C
ATOM 7944 O SER C 162	-19.147	17.829	9.776	1.00	53.95		O
ANISOU 7944 O SER C 162	12478	4473	3546	1332	-118	-657	O
ATOM 7945 CB SER C 162	-20.934	20.315	9.425	1.00	60.03		C
ANISOU 7945 CB SER C 162	13788	4901	4119	1952	99	-727	C
ATOM 7946 OG SER C 162	-22.249	19.953	9.806	1.00	60.80		O
ANISOU 7946 OG SER C 162	13728	5221	4154	2336	411	-686	O
ATOM 7947 H SER C 162	-22.133	19.338	7.481	1.00	63.41		H
ATOM 7948 HA SER C 162	-19.536	19.658	8.080	1.00	65.97		H
ATOM 7949 HB2 SER C 162	-20.362	20.304	10.208	1.00	72.03		H
ATOM 7950 HB3 SER C 162	-20.949	21.204	9.036	1.00	72.03		H
ATOM 7951 HG SER C 162	-22.544	20.498	10.372	1.00	72.96		H
ATOM 7952 N ASN C 163	-21.052	17.017	8.887	1.00	51.07		N
ANISOU 7952 N ASN C 163	11612	4456	3336	1759	332	-520	N
ATOM 7953 CA ASN C 163	-20.943	15.695	9.500	1.00	49.58		C
ANISOU 7953 CA ASN C 163	11172	4518	3148	1680	370	-476	C
ATOM 7954 C ASN C 163	-20.589	14.687	8.404	1.00	45.21		C
ANISOU 7954 C ASN C 163	10226	4117	2835	1484	334	-391	C
ATOM 7955 O ASN C 163	-21.440	14.280	7.609	1.00	43.37		O
ANISOU 7955 O ASN C 163	9710	4038	2731	1631	513	-297	O
ATOM 7956 CB ASN C 163	-22.235	15.335	10.226	1.00	51.29		C
ANISOU 7956 CB ASN C 163	11283	4961	3245	2016	649	-414	C
ATOM 7957 CG ASN C 163	-22.239	13.906	10.741	1.00	49.75		C
ANISOU 7957 CG ASN C 163	10790	5059	3054	1924	693	-324	C

ATOM 7958	OD1 ASN C 163	-21.200	13.247	10.786	1.00	47.97	O
ANISOU 7958	OD1 ASN C 163	10506	4840	2880	1627	496 -333	O
ATOM 7959	ND2 ASN C 163	-23.410	13.424	11.135	1.00	50.76	N
ANISOU 7959	ND2 ASN C 163	10720	5448	3121	2174	940 -209	N
ATOM 7960	H ASN C 163	-21.754	17.108	8.398	1.00	61.28	H
ATOM 7961	HA ASN C 163	-20.223	15.702	10.149	1.00	59.50	H
ATOM 7962	HB2 ASN C 163	-22.346	15.928	10.986	1.00	61.55	H
ATOM 7963	HB3 ASN C 163	-22.981	15.436	9.614	1.00	61.55	H
ATOM 7964	HD21 ASN C 163	-23.465	12.619	11.435	1.00	60.92	H
ATOM 7965	HD22 ASN C 163	-24.115	13.915	11.092	1.00	60.92	H
ATOM 7966	N TRP C 164	-19.316	14.307	8.371	1.00	43.95	N
ANISOU 7966	N TRP C 164	10053	3919	2725	1155	90 -417	N
ATOM 7967	CA TRP C 164	-18.786	13.346	7.411	1.00	40.83	C
ANISOU 7967	CA TRP C 164	9321	3667	2527	960	15 -354	C
ATOM 7968	C TRP C 164	-19.170	11.919	7.785	1.00	40.03	C
ANISOU 7968	C TRP C 164	8930	3839	2441	999	110 -259	C
ATOM 7969	O TRP C 164	-18.818	11.430	8.866	1.00	40.94	O
ANISOU 7969	O TRP C 164	9102	4017	2437	925	37 -252	O
ATOM 7970	CB TRP C 164	-17.269	13.501	7.337	1.00	40.69	C
ANISOU 7970	CB TRP C 164	9384	3536	2539	607	-293 -390	C
ATOM 7971	CG TRP C 164	-16.893	14.812	6.749	1.00	41.81	C
ANISOU 7971	CG TRP C 164	9763	3433	2690	522	-407 -433	C
ATOM 7972	CD1 TRP C 164	-16.920	16.028	7.368	1.00	44.89	C
ANISOU 7972	CD1 TRP C 164	10554	3577	2927	568	-466 -494	C
ATOM 7973	CD2 TRP C 164	-16.466	15.055	5.407	1.00	40.02	C
ANISOU 7973	CD2 TRP C 164	9406	3187	2614	377	-486 -405	C
ATOM 7974	NE1 TRP C 164	-16.527	17.011	6.497	1.00	45.33	N
ANISOU 7974	NE1 TRP C 164	10738	3448	3036	444	-594 -489	N
ATOM 7975	CE2 TRP C 164	-16.242	16.440	5.286	1.00	42.15	C
ANISOU 7975	CE2 TRP C 164	10007	3190	2820	318	-602 -433	C
ATOM 7976	CE3 TRP C 164	-16.246	14.237	4.298	1.00	37.83	C
ANISOU 7976	CE3 TRP C 164	8776	3100	2499	294	-481 -356	C
ATOM 7977	CZ2 TRP C 164	-15.809	17.024	4.103	1.00	41.53	C
ANISOU 7977	CZ2 TRP C 164	9904	3034	2841	154	-712 -400	C
ATOM 7978	CZ3 TRP C 164	-15.821	14.819	3.120	1.00	37.96	C
ANISOU 7978	CZ3 TRP C 164	8766	3057	2599	152	-573 -344	C
ATOM 7979	CH2 TRP C 164	-15.604	16.199	3.032	1.00	39.59	C
ANISOU 7979	CH2 TRP C 164	9296	2997	2749	70	-688 -360	C
ATOM 7980	H TRP C 164	-18.720	14.603	8.916	1.00	52.73	H
ATOM 7981	HA TRP C 164	-19.153	13.537	6.534	1.00	49.00	H
ATOM 7982	HB2 TRP C 164	-16.896	13.450	8.231	1.00	48.83	H
ATOM 7983	HB3 TRP C 164	-16.901	12.799	6.778	1.00	48.83	H
ATOM 7984	HD1 TRP C 164	-17.168	16.169	8.254	1.00	53.87	H
ATOM 7985	HE1 TRP C 164	-16.467	17.849	6.681	1.00	54.39	H
ATOM 7986	HE3 TRP C 164	-16.391	13.320	4.349	1.00	45.40	H
ATOM 7987	HZ2 TRP C 164	-15.664	17.941	4.041	1.00	49.83	H
ATOM 7988	HZ3 TRP C 164	-15.669	14.284	2.375	1.00	45.55	H
ATOM 7989	HH2 TRP C 164	-15.312	16.562	2.228	1.00	47.51	H
ATOM 7990	N ALA C 165	-19.902	11.257	6.890	1.00	39.32	N
ANISOU 7990	N ALA C 165	8537	3911	2490	1105	257 -164	N
ATOM 7991	CA ALA C 165	-20.176	9.831	7.016	1.00	38.49	C
ANISOU 7991	CA ALA C 165	8146	4048	2432	1092	295 -30	C
ATOM 7992	C ALA C 165	-19.144	9.059	6.207	1.00	35.27	C

ANISOU 7992	C	ALA C 165	7564	3667	2170	859	85	-13	C
ATOM 7993	O	ALA C 165	-18.023	9.545	6.019	1.00	34.02		O
ANISOU 7993	O	ALA C 165	7517	3382	2026	665	-115	-104	O
ATOM 7994	CB	ALA C 165	-21.599	9.505	6.554	1.00	37.86		C
ANISOU 7994	CB	ALA C 165	7831	4136	2419	1328	548	105	C
ATOM 7995	H	ALA C 165	-20.255	11.618	6.194	1.00	47.18		H
ATOM 7996	HA	ALA C 165	-20.091	9.570	7.946	1.00	46.19		H
ATOM 7997	HB1	ALA C 165	-21.751	8.552	6.650	1.00	45.44		H
ATOM 7998	HB2	ALA C 165	-22.229	9.998	7.103	1.00	45.44		H
ATOM 7999	HB3	ALA C 165	-21.696	9.765	5.625	1.00	45.44		H
ATOM 8000	N	TYR C 166	-19.502	7.874	5.713	1.00	34.15		N
ANISOU 8000	N	TYR C 166	7111	3688	2178	867	107	121	N
ATOM 8001	CA	TYR C 166	-18.487	7.016	5.122	1.00	32.94		C
ANISOU 8001	CA	TYR C 166	6694	3557	2263	663	-113	130	C
ATOM 8002	C	TYR C 166	-17.994	7.587	3.795	1.00	30.94		C
ANISOU 8002	C	TYR C 166	6338	3245	2172	599	-160	44	C
ATOM 8003	O	TYR C 166	-18.622	8.440	3.162	1.00	30.02		O
ANISOU 8003	O	TYR C 166	6284	3078	2044	709	-19	12	O
ATOM 8004	CB	TYR C 166	-18.997	5.578	4.939	1.00	33.14		C
ANISOU 8004	CB	TYR C 166	6390	3718	2482	680	-116	280	C
ATOM 8005	CG	TYR C 166	-19.996	5.328	3.816	1.00	31.73		C
ANISOU 8005	CG	TYR C 166	5966	3603	2488	787	15	343	C
ATOM 8006	CD1	TYR C 166	-19.648	5.502	2.478	1.00	30.15		C
ANISOU 8006	CD1	TYR C 166	5616	3374	2466	751	-30	258	C
ATOM 8007	CD2	TYR C 166	-21.273	4.860	4.094	1.00	32.12		C
ANISOU 8007	CD2	TYR C 166	5910	3770	2523	905	166	514	C
ATOM 8008	CE1	TYR C 166	-20.555	5.264	1.464	1.00	28.80		C
ANISOU 8008	CE1	TYR C 166	5238	3264	2441	832	62	316	C
ATOM 8009	CE2	TYR C 166	-22.186	4.615	3.077	1.00	30.22		C
ANISOU 8009	CE2	TYR C 166	5435	3594	2451	970	249	596	C
ATOM 8010	CZ	TYR C 166	-21.815	4.814	1.768	1.00	29.20		C
ANISOU 8010	CZ	TYR C 166	5197	3409	2488	931	188	485	C
ATOM 8011	OH	TYR C 166	-22.705	4.580	0.744	1.00	28.80		O
ANISOU 8011	OH	TYR C 166	4933	3424	2585	979	245	564	O
ATOM 8012	H	TYR C 166	-20.300	7.555	5.707	1.00	40.98		H
ATOM 8013	HA	TYR C 166	-17.728	6.981	5.724	1.00	39.52		H
ATOM 8014	HB2	TYR C 166	-18.232	5.007	4.772	1.00	39.76		H
ATOM 8015	HB3	TYR C 166	-19.425	5.303	5.766	1.00	39.76		H
ATOM 8016	HD1	TYR C 166	-18.796	5.809	2.265	1.00	36.18		H
ATOM 8017	HD2	TYR C 166	-21.527	4.727	4.979	1.00	38.54		H
ATOM 8018	HE1	TYR C 166	-20.308	5.397	0.577	1.00	34.56		H
ATOM 8019	HE2	TYR C 166	-23.042	4.313	3.280	1.00	36.26		H
ATOM 8020	HH	TYR C 166	-23.437	4.310	1.055	1.00	34.56		H
ATOM 8021	N	GLN C 167	-16.836	7.092	3.391	1.00	29.08		N
ANISOU 8021	N	GLN C 167	5930	3038	2082	428	-359	25	N
ATOM 8022	CA	GLN C 167	-16.130	7.572	2.214	1.00	28.16		C
ANISOU 8022	CA	GLN C 167	5690	2921	2089	336	-426	-31	C
ATOM 8023	C	GLN C 167	-15.439	6.330	1.680	1.00	25.96		C
ANISOU 8023	C	GLN C 167	5075	2769	2019	288	-554	-5	C
ATOM 8024	O	GLN C 167	-14.495	5.836	2.303	1.00	26.06		O
ANISOU 8024	O	GLN C 167	5061	2808	2032	181	-724	16	O
ATOM 8025	CB	GLN C 167	-15.144	8.687	2.582	1.00	29.88		C
ANISOU 8025	CB	GLN C 167	6161	3026	2164	158	-567	-86	C

ATOM 8026 CG GLN C 167	-14.242	9.212	1.468	1.00	30.68		C
ANISOU 8026 CG GLN C 167	6114	3167	2376	9	-666	-90	C
ATOM 8027 CD GLN C 167	-13.317	10.326	1.965	1.00	33.19		C
ANISOU 8027 CD GLN C 167	6707	3354	2548	-218	-848	-101	C
ATOM 8028 OE1 GLN C 167	-12.477	10.107	2.843	1.00	33.75		O
ANISOU 8028 OE1 GLN C 167	6845	3430	2547	-369	-1033	-79	O
ATOM 8029 NE2 GLN C 167	-13.483	11.528	1.418	1.00	33.70		N
ANISOU 8029 NE2 GLN C 167	6947	3287	2570	-256	-824	-120	N
ATOM 8030 H GLN C 167	-16.424	6.455	3.797	1.00	34.90		H
ATOM 8031 HA GLN C 167	-16.758	7.901	1.552	1.00	33.80		H
ATOM 8032 HB2 GLN C 167	-15.655	9.442	2.915	1.00	35.85		H
ATOM 8033 HB3 GLN C 167	-14.566	8.357	3.287	1.00	35.85		H
ATOM 8034 HG2 GLN C 167	-13.691	8.486	1.136	1.00	36.82		H
ATOM 8035 HG3 GLN C 167	-14.791	9.570	0.754	1.00	36.82		H
ATOM 8036 HE21 GLN C 167	-14.088	11.647	0.818	1.00	40.44		H
ATOM 8037 HE22 GLN C 167	-12.987	12.185	1.666	1.00	40.44		H
ATOM 8038 N AVAL C 168	-15.927	5.786	0.567	0.46	24.05		N
ANISOU 8038 N AVAL C 168	4591	2600	1945	384	-483	-5	N
ATOM 8039 N BVAL C 168	-15.929	5.827	0.550	0.54	24.05		N
ANISOU 8039 N BVAL C 168	4595	2599	1943	383	-480	-7	N
ATOM 8040 CA AVAL C 168	-15.422	4.520	0.050	0.46	23.46		C
ANISOU 8040 CA AVAL C 168	4244	2614	2056	399	-598	-8	C
ATOM 8041 CA BVAL C 168	-15.534	4.533	0.019	0.54	23.40		C
ANISOU 8041 CA BVAL C 168	4239	2604	2049	408	-584	-7	C
ATOM 8042 C AVAL C 168	-15.076	4.679	-1.420	0.46	22.74		C
ANISOU 8042 C AVAL C 168	3954	2621	2065	419	-581	-74	C
ATOM 8043 C BVAL C 168	-15.107	4.705	-1.430	0.54	22.73		C
ANISOU 8043 C BVAL C 168	3956	2617	2061	420	-576	-74	C
ATOM 8044 O AVAL C 168	-15.788	5.359	-2.168	0.46	22.19		O
ANISOU 8044 O AVAL C 168	3903	2549	1977	462	-450	-83	O
ATOM 8045 O BVAL C 168	-15.729	5.460	-2.186	0.54	22.22		O
ANISOU 8045 O BVAL C 168	3915	2555	1974	453	-450	-85	O
ATOM 8046 CB AVAL C 168	-16.438	3.372	0.243	0.46	23.14		C
ANISOU 8046 CB AVAL C 168	4126	2556	2110	501	-573	61	C
ATOM 8047 CB BVAL C 168	-16.690	3.513	0.129	0.54	23.01		C
ANISOU 8047 CB BVAL C 168	4119	2538	2086	517	-533	64	C
ATOM 8048 CG1AVAL C 168	-16.645	3.080	1.728	0.46	24.20		C
ANISOU 8048 CG1AVAL C 168	4418	2645	2133	470	-602	159	C
ATOM 8049 CG1BVAL C 168	-16.380	2.247	-0.647	0.54	22.64		C
ANISOU 8049 CG1BVAL C 168	3838	2523	2240	563	-658	30	C
ATOM 8050 CG2AVAL C 168	-17.761	3.698	-0.429	0.46	22.48		C
ANISOU 8050 CG2AVAL C 168	4026	2478	2039	597	-398	90	C
ATOM 8051 CG2BVAL C 168	-16.968	3.184	1.596	0.54	24.05		C
ANISOU 8051 CG2BVAL C 168	4401	2627	2111	495	-554	164	C
ATOM 8052 H AVAL C 168	-16.554	6.134	0.092	0.46	28.86		H
ATOM 8053 H BVAL C 168	-16.509	6.233	0.061	0.54	28.86		H
ATOM 8054 HA AVAL C 168	-14.610	4.285	0.526	0.46	28.15		H
ATOM 8055 HA BVAL C 168	-14.778	4.194	0.523	0.54	28.08		H
ATOM 8056 HB AVAL C 168	-16.085	2.569	-0.171	0.46	27.77		H
ATOM 8057 HB BVAL C 168	-17.493	3.905	-0.247	0.54	27.62		H
ATOM 8058 HG11AVAL C 168	-17.285	2.358	1.822	0.46	29.04		H
ATOM 8059 HG11BVAL C 168	-17.124	1.632	-0.556	0.54	27.16		H
ATOM 8060 HG12AVAL C 168	-15.795	2.823	2.120	0.46	29.04		H

ATOM	8061	HG12BVAL	C	168	-16.250	2.474	-1.581	0.54	27.16	H		
ATOM	8062	HG13AVAL	C	168	-16.981	3.880	2.163	0.46	29.04	H		
ATOM	8063	HG13BVAL	C	168	-15.573	1.847	-0.287	0.54	27.16	H		
ATOM	8064	HG21AVAL	C	168	-17.696	4.571	-0.847	0.46	26.98	H		
ATOM	8065	HG21BVAL	C	168	-17.695	2.544	1.643	0.54	28.86	H		
ATOM	8066	HG22AVAL	C	168	-17.949	3.023	-1.100	0.46	26.98	H		
ATOM	8067	HG22BVAL	C	168	-16.167	2.806	1.991	0.54	28.86	H		
ATOM	8068	HG23AVAL	C	168	-18.463	3.703	0.241	0.46	26.98	H		
ATOM	8069	HG23BVAL	C	168	-17.213	3.999	2.061	0.54	28.86	H		
ATOM	8070	N	AMET	C	169	-13.969	4.065	-1.825	0.46	23.05	N	
ANISOU	8070	N	AMET	C	169	3797	2766	2195	405	-709	-108	N
ATOM	8071	N	BMET	C	169	-14.039	4.014	-1.809	0.54	23.01	N	
ANISOU	8071	N	BMET	C	169	3794	2756	2194	412	-706	-107	N
ATOM	8072	CA	AMET	C	169	-13.667	3.879	-3.237	0.46	22.92	C	
ANISOU	8072	CA	AMET	C	169	3558	2889	2263	477	-687	-174	C
ATOM	8073	CA	BMET	C	169	-13.672	3.855	-3.210	0.54	22.94	C	
ANISOU	8073	CA	BMET	C	169	3561	2888	2266	478	-689	-174	C
ATOM	8074	C	AMET	C	169	-14.441	2.654	-3.700	0.46	22.33	C	
ANISOU	8074	C	AMET	C	169	3393	2776	2316	629	-693	-219	C
ATOM	8075	C	BMET	C	169	-14.426	2.636	-3.722	0.54	22.35	C	
ANISOU	8075	C	BMET	C	169	3390	2781	2320	631	-694	-221	C
ATOM	8076	O	AMET	C	169	-14.121	1.525	-3.311	0.46	22.76	O	
ANISOU	8076	O	AMET	C	169	3391	2791	2465	689	-821	-229	O
ATOM	8077	O	BMET	C	169	-14.078	1.497	-3.388	0.54	22.78	O	
ANISOU	8077	O	BMET	C	169	3380	2802	2472	696	-823	-236	O
ATOM	8078	CB	AMET	C	169	-12.167	3.708	-3.454	0.46	24.19	C	
ANISOU	8078	CB	AMET	C	169	3529	3217	2446	441	-804	-180	C
ATOM	8079	CB	BMET	C	169	-12.160	3.698	-3.358	0.54	24.21	C	
ANISOU	8079	CB	BMET	C	169	3541	3210	2446	436	-810	-176	C
ATOM	8080	CG	AMET	C	169	-11.764	3.793	-4.912	0.46	24.32	C	
ANISOU	8080	CG	AMET	C	169	3323	3436	2482	514	-746	-235	C
ATOM	8081	CG	BMET	C	169	-11.667	3.577	-4.797	0.54	24.45	C	
ANISOU	8081	CG	BMET	C	169	3326	3450	2515	530	-769	-238	C
ATOM	8082	SD	AMET	C	169	-12.008	5.462	-5.543	0.46	24.28	S	
ANISOU	8082	SD	AMET	C	169	3403	3468	2356	358	-629	-173	S
ATOM	8083	SD	BMET	C	169	-12.182	4.925	-5.878	0.54	24.20	S	
ANISOU	8083	SD	BMET	C	169	3323	3483	2388	452	-616	-219	S
ATOM	8084	CE	AMET	C	169	-12.166	5.149	-7.301	0.46	23.98	C	
ANISOU	8084	CE	AMET	C	169	3131	3640	2339	510	-529	-250	C
ATOM	8085	CE	BMET	C	169	-12.062	6.347	-4.800	0.54	23.98	C	
ANISOU	8085	CE	BMET	C	169	3565	3308	2240	212	-645	-109	C
ATOM	8086	H	AMET	C	169	-13.372	3.744	-1.295	0.46	27.66	H	
ATOM	8087	H	BMET	C	169	-13.502	3.621	-1.264	0.54	27.61	H	
ATOM	8088	HA	AMET	C	169	-13.963	4.657	-3.736	0.46	27.51	H	
ATOM	8089	HA	BMET	C	169	-13.950	4.640	-3.707	0.54	27.52	H	
ATOM	8090	HB2	AMET	C	169	-11.698	4.407	-2.972	0.46	29.03	H	
ATOM	8091	HB2	BMET	C	169	-11.729	4.472	-2.964	0.54	29.05	H	
ATOM	8092	HB3	AMET	C	169	-11.898	2.838	-3.119	0.46	29.03	H	
ATOM	8093	HB3	BMET	C	169	-11.885	2.897	-2.886	0.54	29.05	H	
ATOM	8094	HG2	AMET	C	169	-10.826	3.566	-5.002	0.46	29.19	H	
ATOM	8095	HG2	BMET	C	169	-10.697	3.557	-4.792	0.54	29.34	H	
ATOM	8096	HG3	AMET	C	169	-12.311	3.185	-5.434	0.46	29.19	H	
ATOM	8097	HG3	BMET	C	169	-12.008	2.751	-5.173	0.54	29.34	H	

ATOM	8098	HE1AMET C 169	-12.924	4.563	-7.450	0.46	28.77	H
ATOM	8099	HE1BMET C 169	-11.146	6.434	-4.493	0.54	28.78	H
ATOM	8100	HE2AMET C 169	-12.304	5.993	-7.760	0.46	28.77	H
ATOM	8101	HE2BMET C 169	-12.323	7.140	-5.294	0.54	28.78	H
ATOM	8102	HE3AMET C 169	-11.353	4.728	-7.620	0.46	28.77	H
ATOM	8103	HE3BMET C 169	-12.655	6.220	-4.043	0.54	28.78	H
ATOM	8104	N ALA C 170	-15.465	2.873	-4.518	1.00	21.44	N
ANISOU	8104	N ALA C 170	3279	2657	2210	680	-582 -232	N
ATOM	8105	CA ALA C 170	-16.484	1.871	-4.767	1.00	21.21	C
ANISOU	8105	CA ALA C 170	3223	2550	2284	764	-607 -230	C
ATOM	8106	C ALA C 170	-16.561	1.427	-6.219	1.00	21.22	C
ANISOU	8106	C ALA C 170	3089	2633	2342	860	-622 -339	C
ATOM	8107	O ALA C 170	-16.121	2.111	-7.147	1.00	21.17	O
ANISOU	8107	O ALA C 170	3005	2772	2268	867	-551 -392	O
ATOM	8108	CB ALA C 170	-17.860	2.397	-4.359	1.00	20.75	C
ANISOU	8108	CB ALA C 170	3281	2424	2180	740	-479 -111	C
ATOM	8109	HA ALA C 170	-16.292	1.089	-4.227	1.00	25.45	H
ATOM	8110	HB1 ALA C 170	-18.524	1.713	-4.534	1.00	24.90	H
ATOM	8111	HB2 ALA C 170	-17.847	2.613	-3.413	1.00	24.90	H
ATOM	8112	HB3 ALA C 170	-18.059	3.193	-4.877	1.00	24.90	H
ATOM	8113	N THR C 171	-17.145	0.247	-6.370	1.00	21.61	N
ANISOU	8113	N THR C 171	3128	2580	2504	920	-734 -358	N
ATOM	8114	CA THR C 171	-17.731	-0.220	-7.613	1.00	21.85	C
ANISOU	8114	CA THR C 171	3105	2624	2571	988	-768 -439	C
ATOM	8115	C THR C 171	-19.243	-0.131	-7.454	1.00	21.46	C
ANISOU	8115	C THR C 171	3103	2499	2552	909	-729 -286	C
ATOM	8116	O THR C 171	-19.807	-0.735	-6.536	1.00	21.81	O
ANISOU	8116	O THR C 171	3195	2424	2669	856	-799 -162	O
ATOM	8117	CB THR C 171	-17.277	-1.650	-7.908	1.00	23.20	C
ANISOU	8117	CB THR C 171	3264	2701	2849	1108	-970 -572	C
ATOM	8118	OG1 THR C 171	-15.850	-1.667	-8.009	1.00	23.88	O
ANISOU	8118	OG1 THR C 171	3265	2907	2899	1216	-977 -685	O
ATOM	8119	CG2 THR C 171	-17.887	-2.167	-9.206	1.00	24.37	C
ANISOU	8119	CG2 THR C 171	3412	2838	3009	1174	-1039 -683	C
ATOM	8120	H THR C 171	-17.217	-0.325	-5.732	1.00	25.94	H
ATOM	8121	HA THR C 171	-17.457	0.355	-8.345	1.00	26.21	H
ATOM	8122	HB THR C 171	-17.556	-2.232	-7.184	1.00	27.83	H
ATOM	8123	HG1 THR C 171	-15.582	-2.447	-8.171	1.00	28.65	H
ATOM	8124	HG21 THR C 171	-17.588	-3.074	-9.374	1.00	29.24	H
ATOM	8125	HG22 THR C 171	-18.855	-2.162	-9.142	1.00	29.24	H
ATOM	8126	HG23 THR C 171	-17.617	-1.603	-9.947	1.00	29.24	H
ATOM	8127	N ALA C 172	-19.894	0.644	-8.323	1.00	20.99	N
ANISOU	8127	N ALA C 172	3008	2536	2432	899	-615 -263	N
ATOM	8128	CA ALA C 172	-21.329	0.873	-8.248	1.00	20.89	C
ANISOU	8128	CA ALA C 172	2995	2504	2440	843	-555 -87	C
ATOM	8129	C ALA C 172	-21.945	0.663	-9.624	1.00	22.60	C
ANISOU	8129	C ALA C 172	3143	2775	2670	850	-611 -127	C
ATOM	8130	O ALA C 172	-21.312	0.931	-10.647	1.00	22.13	O
ANISOU	8130	O ALA C 172	3050	2820	2537	904	-598 -274	O
ATOM	8131	CB ALA C 172	-21.652	2.291	-7.740	1.00	20.24	C
ANISOU	8131	CB ALA C 172	2961	2479	2252	835	-339 28	C
ATOM	8132	H ALA C 172	-19.514	1.055	-8.976	1.00	25.19	H
ATOM	8133	HA ALA C 172	-21.725	0.233	-7.636	1.00	25.07	H

ATOM 8134	HB1 ALA C 172	-22.615	2.402	-7.705	1.00	24.29	H
ATOM 8135	HB2 ALA C 172	-21.274	2.403	-6.854	1.00	24.29	H
ATOM 8136	HB3 ALA C 172	-21.266	2.940	-8.349	1.00	24.29	H
ATOM 8137	N GLY C 173	-23.179	0.171	-9.646	1.00	24.75	N
ANISOU 8137	N GLY C 173	3383	3000	3022	782	-685 25	N
ATOM 8138	CA GLY C 173	-23.811	-0.123	-10.922	1.00	27.86	C
ANISOU 8138	CA GLY C 173	3728	3432	3424	758	-787 -1	C
ATOM 8139	C GLY C 173	-25.320	-0.110	-10.844	1.00	30.37	C
ANISOU 8139	C GLY C 173	3962	3773	3805	657	-795 262	C
ATOM 8140	O GLY C 173	-25.915	0.001	-9.771	1.00	30.53	O
ANISOU 8140	O GLY C 173	3950	3788	3863	624	-715 471	O
ATOM 8141	H GLY C 173	-23.661	0.003	-8.954	1.00	29.70	H
ATOM 8142	HA2 GLY C 173	-23.533	0.534	-11.578	1.00	33.43	H
ATOM 8143	HA3 GLY C 173	-23.528	-1.000	-11.226	1.00	33.43	H
ATOM 8144	N TYR C 174	-25.936	-0.221	-12.023	1.00	34.22	N
ANISOU 8144	N TYR C 174	4401	4317	4287	612	-892 264	N
ATOM 8145	CA TYR C 174	-27.387	-0.251	-12.160	1.00	37.21	C
ANISOU 8145	CA TYR C 174	4657	4751	4729	499	-936 538	C
ATOM 8146	C TYR C 174	-27.755	-1.218	-13.274	1.00	40.17	C
ANISOU 8146	C TYR C 174	5060	5064	5140	392	-1229 468	C
ATOM 8147	O TYR C 174	-27.265	-1.078	-14.398	1.00	39.68	O
ANISOU 8147	O TYR C 174	5054	5051	4972	451	-1262 256	O
ATOM 8148	CB TYR C 174	-27.950	1.138	-12.474	1.00	36.86	C
ANISOU 8148	CB TYR C 174	4510	4890	4604	562	-697 679	C
ATOM 8149	CG TYR C 174	-29.458	1.174	-12.584	1.00	38.16	C
ANISOU 8149	CG TYR C 174	4502	5160	4837	474	-720 999	C
ATOM 8150	H TYR C 174	-25.521	-0.282	-12.774	1.00	41.07	H
ATOM 8151	HA TYR C 174	-27.786	-0.566	-11.334	1.00	44.65	H
ATOM 8152	HB2 TYR C 174	-27.689	1.748	-11.766	1.00	44.23	H
ATOM 8153	HB3 TYR C 174	-27.583	1.440	-13.320	1.00	44.23	H
ATOM 8154	N GLN C 175	-28.627	-2.180	-12.960	1.00	43.20	N
ANISOU 8154	N GLN C 175	5410	5347	5656	226	-1452 659	N
ATOM 8155	CA GLN C 175	-29.034	-3.230	-13.891	1.00	45.45	C
ANISOU 8155	CA GLN C 175	5773	5509	5988	83	-1801 604	C
ATOM 8156	C GLN C 175	-27.925	-3.525	-14.893	1.00	41.49	C
ANISOU 8156	C GLN C 175	5463	4934	5366	222	-1889 199	C
ATOM 8157	O GLN C 175	-28.103	-3.329	-16.099	1.00	45.19	O
ANISOU 8157	O GLN C 175	5951	5495	5724	220	-1949 103	O
ATOM 8158	CB GLN C 175	-30.327	-2.836	-14.620	1.00	48.55	C
ANISOU 8158	CB GLN C 175	5999	6069	6380	-55	-1843 861	C
ATOM 8159	CG GLN C 175	-31.274	-1.976	-13.800	1.00	48.83	C
ANISOU 8159	CG GLN C 175	5788	6305	6458	-63	-1595 1239	C
ATOM 8160	H GLN C 175	-29.005	-2.244	-12.190	1.00	51.84	H
ATOM 8161	HA GLN C 175	-29.209	-4.043	-13.391	1.00	54.54	H
ATOM 8162	HB2 GLN C 175	-30.093	-2.336	-15.418	1.00	58.26	H
ATOM 8163	HB3 GLN C 175	-30.802	-3.644	-14.868	1.00	58.26	H
ATOM 8164	N ASER C 176	-26.772	-3.974	-14.412	0.51	37.13	N
ANISOU 8164	N ASER C 176	5039	4250	4818	358	-1888 -28	N
ATOM 8165	N BSER C 176	-26.781	-3.984	-14.395	0.49	37.12	N
ANISOU 8165	N BSER C 176	5038	4246	4821	356	-1890 -24	N
ATOM 8166	CA ASER C 176	-25.641	-4.261	-15.289	0.51	35.44	C
ANISOU 8166	CA ASER C 176	4977	4013	4477	543	-1935 -401	C
ATOM 8167	CA BSER C 176	-25.601	-4.207	-15.218	0.49	35.29	C

ANISOU 8167	CA	BSER C 176	4950	4000	4459	549	-1915	-396	C
ATOM 8168	C	ASER C 176	-25.006	-5.566	-14.827	0.51	35.71		C
ANISOU 8168	C	ASER C 176	5194	3761	4614	601	-2174	-568	C
ATOM 8169	C	BSER C 176	-25.005	-5.559	-14.830	0.49	35.70		C
ANISOU 8169	C	BSER C 176	5191	3761	4611	601	-2173	-568	C
ATOM 8170	O	ASER C 176	-25.609	-6.358	-14.094	0.51	35.96		O
ANISOU 8170	O	ASER C 176	5260	3587	4815	441	-2379	-389	O
ATOM 8171	O	BSER C 176	-25.632	-6.383	-14.151	0.49	36.07		O
ANISOU 8171	O	BSER C 176	5280	3598	4827	438	-2390	-394	O
ATOM 8172	CB	ASER C 176	-24.651	-3.086	-15.304	0.51	32.32		C
ANISOU 8172	CB	ASER C 176	4495	3843	3942	716	-1601	-502	C
ATOM 8173	CB	BSER C 176	-24.610	-3.046	-15.048	0.49	32.06		C
ANISOU 8173	CB	BSER C 176	4451	3801	3929	715	-1577	-476	C
ATOM 8174	OG	ASER C 176	-23.981	-2.958	-14.063	0.51	30.51		O
ANISOU 8174	OG	ASER C 176	4245	3567	3782	769	-1475	-466	O
ATOM 8175	OG	BSER C 176	-23.720	-2.955	-16.148	0.49	32.12		O
ANISOU 8175	OG	BSER C 176	4512	3928	3763	879	-1550	-756	O
ATOM 8176	HA	ASER C 176	-25.967	-4.389	-16.193	0.51	42.53		H
ATOM 8177	HA	BSER C 176	-25.864	-4.247	-16.151	0.49	42.35		H
ATOM 8178	HB2	ASER C 176	-23.993	-3.239	-16.001	0.51	38.78		H
ATOM 8179	HB2	BSER C 176	-25.108	-2.216	-14.979	0.49	38.47		H
ATOM 8180	HB3	ASER C 176	-25.138	-2.267	-15.484	0.51	38.78		H
ATOM 8181	HB3	BSER C 176	-24.094	-3.190	-14.239	0.49	38.47		H
ATOM 8182	HG	ASER C 176	-23.445	-2.312	-14.091	0.51	36.61		H
ATOM 8183	HG	BSER C 176	-23.279	-3.667	-16.220	0.49	38.54		H
ATOM 8184	N	SER C 177	-23.770	-5.797	-15.264	1.00	36.30		N
ANISOU 8184	N	SER C 177	5374	3833	4584	840	-2152	-892	N
ATOM 8185	CA	SER C 177	-23.072	-7.045	-15.004	1.00	39.01		C
ANISOU 8185	CA	SER C 177	5912	3902	5010	964	-2386	-1094	C
ATOM 8186	C	SER C 177	-21.581	-6.769	-15.131	1.00	39.11		C
ANISOU 8186	C	SER C 177	5900	4063	4899	1262	-2190	-1349	C
ATOM 8187	O	SER C 177	-21.178	-5.816	-15.804	1.00	36.99		O
ANISOU 8187	O	SER C 177	5514	4090	4452	1351	-1953	-1415	O
ATOM 8188	CB	SER C 177	-23.510	-8.135	-15.995	1.00	42.44		C
ANISOU 8188	CB	SER C 177	6592	4104	5429	946	-2751	-1272	C
ATOM 8189	OG	SER C 177	-24.899	-8.416	-15.889	1.00	43.09		O
ANISOU 8189	OG	SER C 177	6669	4065	5637	628	-2969	-992	O
ATOM 8190	HA	SER C 177	-23.260	-7.346	-14.101	1.00	46.82		H
ATOM 8191	HB2	SER C 177	-23.319	-7.833	-16.896	1.00	50.93		H
ATOM 8192	HB3	SER C 177	-23.012	-8.946	-15.807	1.00	50.93		H
ATOM 8193	HG	SER C 177	-25.345	-7.723	-16.052	1.00	51.70		H
ATOM 8194	N	GLY C 178	-20.768	-7.595	-14.475	1.00	41.73		N
ANISOU 8194	N	GLY C 178	6323	4203	5328	1404	-2298	-1456	N
ATOM 8195	CA	GLY C 178	-19.339	-7.591	-14.732	1.00	42.98		C
ANISOU 8195	CA	GLY C 178	6458	4498	5374	1719	-2172	-1709	C
ATOM 8196	C	GLY C 178	-18.530	-7.955	-13.500	1.00	42.58		C
ANISOU 8196	C	GLY C 178	6375	4336	5466	1792	-2177	-1655	C
ATOM 8197	O	GLY C 178	-19.053	-8.501	-12.532	1.00	43.14		O
ANISOU 8197	O	GLY C 178	6509	4159	5723	1627	-2341	-1474	O
ATOM 8198	H	GLY C 178	-21.021	-8.163	-13.881	1.00	50.07		H
ATOM 8199	HA2	GLY C 178	-19.134	-8.228	-15.434	1.00	51.57		H
ATOM 8200	HA3	GLY C 178	-19.066	-6.708	-15.029	1.00	51.57		H
ATOM 8201	N	SER C 179	-17.236	-7.621	-13.573	1.00	40.58		N

ANISOU 8201	N	SER C 179	5991	4320	5108	2016	-1988	-1770	N
ATOM 8202	CA	SER C 179	-16.247	-7.996	-12.574	1.00	39.51		C
ANISOU 8202	CA	SER C 179	5789	4161	5061	2089	-1984	-1718	C
ATOM 8203	C	SER C 179	-15.374	-6.806	-12.216	1.00	36.16		C
ANISOU 8203	C	SER C 179	5134	4052	4554	2125	-1705	-1652	C
ATOM 8204	O	SER C 179	-15.034	-5.987	-13.075	1.00	35.34		O
ANISOU 8204	O	SER C 179	4906	4250	4273	2194	-1512	-1719	O
ATOM 8205	CB	SER C 179	-15.332	-9.102	-13.077	1.00	42.68		C
ANISOU 8205	CB	SER C 179	6254	4550	5414	2317	-2089	-1896	C
ATOM 8206	OG	SER C 179	-16.064	-10.273	-13.369	1.00	45.89		O
ANISOU 8206	OG	SER C 179	6896	4640	5901	2287	-2382	-1949	O
ATOM 8207	H	SER C 179	-16.904	-7.161	-14.219	1.00	48.70		H
ATOM 8208	HA	SER C 179	-16.695	-8.304	-11.771	1.00	47.41		H
ATOM 8209	HB2	SER C 179	-14.886	-8.800	-13.883	1.00	51.22		H
ATOM 8210	HB3	SER C 179	-14.675	-9.304	-12.392	1.00	51.22		H
ATOM 8211	HG	SER C 179	-16.456	-10.547	-12.679	1.00	55.07		H
ATOM 8212	N	ASER C 180	-14.978	-6.748	-10.945	0.49	34.58		N
ANISOU 8212	N	ASER C 180	4879	3788	4471	2062	-1706	-1499	N
ATOM 8213	N	BSER C 180	-14.995	-6.724	-10.942	0.51	34.52		N
ANISOU 8213	N	BSER C 180	4870	3782	4463	2059	-1704	-1496	N
ATOM 8214	CA	ASER C 180	-14.105	-5.696	-10.452	0.49	32.79		C
ANISOU 8214	CA	ASER C 180	4449	3838	4173	2036	-1493	-1394	C
ATOM 8215	CA	BSER C 180	-14.072	-5.690	-10.503	0.51	32.84		C
ANISOU 8215	CA	BSER C 180	4452	3855	4173	2046	-1489	-1402	C
ATOM 8216	C	ASER C 180	-13.207	-6.253	-9.358	0.49	33.52		C
ANISOU 8216	C	ASER C 180	4510	3848	4380	2101	-1589	-1336	C
ATOM 8217	C	BSER C 180	-13.219	-6.219	-9.360	0.51	33.47		C
ANISOU 8217	C	BSER C 180	4501	3845	4371	2098	-1585	-1333	C
ATOM 8218	O	ASER C 180	-13.637	-7.084	-8.555	0.49	34.25		O
ANISOU 8218	O	ASER C 180	4737	3660	4617	2010	-1768	-1253	O
ATOM 8219	O	BSER C 180	-13.691	-6.993	-8.523	0.51	34.05		O
ANISOU 8219	O	BSER C 180	4708	3639	4589	1997	-1759	-1240	O
ATOM 8220	CB	ASER C 180	-14.900	-4.512	-9.892	0.49	29.92		C
ANISOU 8220	CB	ASER C 180	4056	3534	3779	1735	-1343	-1165	C
ATOM 8221	CB	BSER C 180	-14.810	-4.419	-10.055	0.51	29.98		C
ANISOU 8221	CB	BSER C 180	4045	3582	3762	1753	-1320	-1183	C
ATOM 8222	OG	ASER C 180	-14.028	-3.577	-9.278	0.49	28.50		O
ANISOU 8222	OG	ASER C 180	3738	3554	3536	1674	-1196	-1060	O
ATOM 8223	OG	BSER C 180	-15.476	-4.612	-8.818	0.51	28.43		O
ANISOU 8223	OG	BSER C 180	3939	3172	3690	1569	-1403	-995	O
ATOM 8224	H	ASER C 180	-15.208	-7.318	-10.343	0.49	41.49		H
ATOM 8225	HA	ASER C 180	-13.544	-5.375	-11.176	0.49	39.35		H
ATOM 8226	HA	BSER C 180	-13.484	-5.455	-11.237	0.51	39.41		H
ATOM 8227	HB2	ASER C 180	-15.373	-4.076	-10.618	0.49	35.91		H
ATOM 8228	HB2	BSER C 180	-14.166	-3.701	-9.956	0.51	35.97		H
ATOM 8229	HB3	ASER C 180	-15.531	-4.837	-9.231	0.49	35.91		H
ATOM 8230	HB3	BSER C 180	-15.466	-4.183	-10.730	0.51	35.97		H
ATOM 8231	HG	ASER C 180	-13.475	-3.288	-9.841	0.49	34.20		H
ATOM 8232	HG	BSER C 180	-14.921	-4.816	-8.222	0.51	34.11		H
ATOM 8233	N	ASN C 181	-11.960	-5.790	-9.340	1.00	32.70		N
ANISOU 8233	N	ASN C 181	4209	4018	4197	2212	-1467	-1340	N
ATOM 8234	CA	ASN C 181	-11.050	-6.014	-8.227	1.00	33.78		C
ANISOU 8234	CA	ASN C 181	4268	4149	4419	2216	-1528	-1226	C

ATOM 8235 C ASN C 181	-10.376	-4.686	-7.971	1.00	32.32		C
ANISOU 8235 C ASN C 181	3881	4278	4121	2087	-1353	-1089	C
ATOM 8236 O ASN C 181	-9.799	-4.101	-8.893	1.00	32.44		O
ANISOU 8236 O ASN C 181	3727	4598	4001	2174	-1205	-1147	O
ATOM 8237 CB ASN C 181	-9.988	-7.080	-8.506	1.00	37.39		C
ANISOU 8237 CB ASN C 181	4687	4630	4890	2444	-1581	-1344	C
ATOM 8238 CG ASN C 181	-8.920	-7.135	-7.399	1.00	39.35		C
ANISOU 8238 CG ASN C 181	4796	4939	5216	2452	-1622	-1195	C
ATOM 8239 OD1 ASN C 181	-9.040	-7.900	-6.446	1.00	39.76		O
ANISOU 8239 OD1 ASN C 181	4963	4737	5409	2393	-1785	-1113	O
ATOM 8240 ND2 ASN C 181	-7.889	-6.298	-7.517	1.00	40.21		N
ANISOU 8240 ND2 ASN C 181	4643	5406	5230	2497	-1487	-1130	N
ATOM 8241 H ASN C 181	-11.603	-5.340	-9.980	1.00	39.24		H
ATOM 8242 HA ASN C 181	-11.552	-6.269	-7.436	1.00	40.54		H
ATOM 8243 HB2 ASN C 181	-10.416	-7.949	-8.557	1.00	44.87		H
ATOM 8244 HB3 ASN C 181	-9.545	-6.876	-9.344	1.00	44.87		H
ATOM 8245 HD21 ASN C 181	-7.268	-6.294	-6.922	1.00	48.26		H
ATOM 8246 HD22 ASN C 181	-7.844	-5.763	-8.189	1.00	48.26		H
ATOM 8247 N VAL C 182	-10.469	-4.205	-6.737	1.00	30.64		N
ANISOU 8247 N VAL C 182	3706	3994	3941	1845	-1371	-894	N
ATOM 8248 CA VAL C 182	-9.898	-2.922	-6.367	1.00	29.74		C
ANISOU 8248 CA VAL C 182	3473	4111	3714	1649	-1246	-750	C
ATOM 8249 C VAL C 182	-9.254	-3.056	-5.001	1.00	31.72		C
ANISOU 8249 C VAL C 182	3719	4309	4025	1552	-1369	-599	C
ATOM 8250 O VAL C 182	-9.738	-3.773	-4.119	1.00	32.35		O
ANISOU 8250 O VAL C 182	3949	4137	4206	1519	-1504	-548	O
ATOM 8251 CB VAL C 182	-10.949	-1.790	-6.341	1.00	27.90		C
ANISOU 8251 CB VAL C 182	3369	3840	3392	1400	-1113	-671	C
ATOM 8252 CG1 VAL C 182	-10.273	-0.432	-6.124	1.00	27.28		C
ANISOU 8252 CG1 VAL C 182	3203	3970	3190	1209	-1015	-545	C
ATOM 8253 CG2 VAL C 182	-11.779	-1.792	-7.613	1.00	27.03		C
ANISOU 8253 CG2 VAL C 182	3287	3742	3241	1480	-1029	-795	C
ATOM 8254 H VAL C 182	-10.864	-4.610	-6.089	1.00	36.76		H
ATOM 8255 HA VAL C 182	-9.210	-2.682	-7.007	1.00	35.68		H
ATOM 8256 HB VAL C 182	-11.551	-1.942	-5.596	1.00	33.48		H
ATOM 8257 HG11 VAL C 182	-10.953	0.260	-6.111	1.00	32.73		H
ATOM 8258 HG12 VAL C 182	-9.800	-0.447	-5.277	1.00	32.73		H
ATOM 8259 HG13 VAL C 182	-9.650	-0.271	-6.849	1.00	32.73		H
ATOM 8260 HG21 VAL C 182	-12.428	-1.072	-7.567	1.00	32.43		H
ATOM 8261 HG22 VAL C 182	-11.191	-1.659	-8.373	1.00	32.43		H
ATOM 8262 HG23 VAL C 182	-12.235	-2.644	-7.691	1.00	32.43		H
ATOM 8263 N THR C 183	-8.149	-2.354	-4.846	1.00	32.16		N
ANISOU 8263 N THR C 183	3591	4621	4009	1485	-1337	-503	N
ATOM 8264 CA THR C 183	-7.441	-2.242	-3.588	1.00	32.44		C
ANISOU 8264 CA THR C 183	3607	4657	4061	1341	-1460	-337	C
ATOM 8265 C THR C 183	-7.378	-0.769	-3.240	1.00	30.73		C
ANISOU 8265 C THR C 183	3433	4543	3700	1032	-1384	-210	C
ATOM 8266 O THR C 183	-7.175	0.070	-4.120	1.00	30.64		O
ANISOU 8266 O THR C 183	3312	4733	3599	988	-1260	-217	O
ATOM 8267 CB THR C 183	-6.046	-2.861	-3.707	1.00	34.36		C
ANISOU 8267 CB THR C 183	3572	5118	4366	1553	-1547	-316	C
ATOM 8268 OG1 THR C 183	-6.187	-4.274	-3.903	1.00	35.56		O
ANISOU 8268 OG1 THR C 183	3762	5089	4660	1859	-1650	-449	O

ATOM	8269	CG2 THR C 183	-5.201	-2.591	-2.487	1.00	35.32		C
ANISOU	8269	CG2 THR C 183	3634	5300	4487	1365	-1686	-111	C
ATOM	8270	H THR C 183	-7.774	-1.915	-5.483	1.00	38.60		H
ATOM	8271	HA THR C 183	-7.932	-2.707	-2.892	1.00	38.92		H
ATOM	8272	HB THR C 183	-5.594	-2.478	-4.475	1.00	41.23		H
ATOM	8273	HG1 THR C 183	-6.623	-4.425	-4.605	1.00	42.67		H
ATOM	8274	HG21 THR C 183	-4.326	-2.995	-2.594	1.00	42.38		H
ATOM	8275	HG22 THR C 183	-5.094	-1.635	-2.364	1.00	42.38		H
ATOM	8276	HG23 THR C 183	-5.627	-2.964	-1.700	1.00	42.38		H
ATOM	8277	N VAL C 184	-7.607	-0.462	-1.965	1.00	30.26		N
ANISOU	8277	N VAL C 184	3564	4327	3605	821	-1467	-97	N
ATOM	8278	CA VAL C 184	-7.775	0.905	-1.494	1.00	29.53		C
ANISOU	8278	CA VAL C 184	3629	4229	3363	538	-1420	-10	C
ATOM	8279	C VAL C 184	-6.845	1.126	-0.317	1.00	31.05		C
ANISOU	8279	C VAL C 184	3830	4458	3509	354	-1595	140	C
ATOM	8280	O VAL C 184	-6.612	0.219	0.486	1.00	31.85		O
ANISOU	8280	O VAL C 184	3930	4486	3684	414	-1735	187	O
ATOM	8281	CB VAL C 184	-9.232	1.196	-1.068	1.00	28.09		C
ANISOU	8281	CB VAL C 184	3751	3799	3123	474	-1328	-42	C
ATOM	8282	CG1 VAL C 184	-9.408	2.660	-0.747	1.00	27.40		C
ANISOU	8282	CG1 VAL C 184	3854	3688	2870	247	-1266	8	C
ATOM	8283	CG2 VAL C 184	-10.221	0.747	-2.140	1.00	26.72		C
ANISOU	8283	CG2 VAL C 184	3558	3574	3020	649	-1203	-165	C
ATOM	8284	H VAL C 184	-7.671	-1.048	-1.339	1.00	36.31		H
ATOM	8285	HA VAL C 184	-7.531	1.524	-2.200	1.00	35.44		H
ATOM	8286	HB VAL C 184	-9.425	0.693	-0.261	1.00	33.71		H
ATOM	8287	HG11 VAL C 184	-10.328	2.817	-0.483	1.00	32.88		H
ATOM	8288	HG12 VAL C 184	-8.810	2.898	-0.021	1.00	32.88		H
ATOM	8289	HG13 VAL C 184	-9.196	3.184	-1.536	1.00	32.88		H
ATOM	8290	HG21 VAL C 184	-11.122	0.944	-1.840	1.00	32.06		H
ATOM	8291	HG22 VAL C 184	-10.034	1.226	-2.962	1.00	32.06		H
ATOM	8292	HG23 VAL C 184	-10.121	-0.207	-2.282	1.00	32.06		H
ATOM	8293	N TRP C 185	-6.330	2.344	-0.205	1.00	31.96		N
ANISOU	8293	N TRP C 185	3970	4671	3500	110	-1615	231	N
ATOM	8294	CA TRP C 185	-5.451	2.681	0.907	1.00	34.29		C
ANISOU	8294	CA TRP C 185	4304	4997	3727	-118	-1815	383	C
ATOM	8295	C TRP C 185	-5.156	4.172	0.963	1.00	34.89		C
ANISOU	8295	C TRP C 185	4509	5097	3651	-426	-1849	461	C
ATOM	8296	O TRP C 185	-5.572	4.938	0.085	1.00	33.17		O
ANISOU	8296	O TRP C 185	4319	4889	3397	-448	-1709	412	O
ATOM	8297	CB TRP C 185	-4.135	1.901	0.812	1.00	36.99		C
ANISOU	8297	CB TRP C 185	4277	5592	4185	-18	-1951	489	C
ATOM	8298	CG TRP C 185	-3.203	2.374	-0.283	1.00	38.65		C
ANISOU	8298	CG TRP C 185	4143	6139	4403	-21	-1902	561	C
ATOM	8299	CD1 TRP C 185	-2.238	3.339	-0.182	1.00	41.03		C
ANISOU	8299	CD1 TRP C 185	4322	6642	4626	-310	-2017	753	C
ATOM	8300	CD2 TRP C 185	-3.142	1.890	-1.631	1.00	37.76		C
ANISOU	8300	CD2 TRP C 185	3763	6221	4362	267	-1737	463	C
ATOM	8301	NE1 TRP C 185	-1.586	3.487	-1.384	1.00	41.78		N
ANISOU	8301	NE1 TRP C 185	4053	7077	4744	-223	-1916	810	N
ATOM	8302	CE2 TRP C 185	-2.120	2.608	-2.288	1.00	39.68		C
ANISOU	8302	CE2 TRP C 185	3700	6821	4555	150	-1731	619	C
ATOM	8303	CE3 TRP C 185	-3.849	0.919	-2.344	1.00	35.73		C

ANISOU 8303	CE3 TRP C 185	3508	5875	4193	601	-1610	266	C
ATOM 8304	CZ2 TRP C 185	-1.792	2.388	-3.625	1.00	40.05		C
ANISOU 8304	CZ2 TRP C 185	3436	7170	4612	386	-1569	579	C
ATOM 8305	CZ3 TRP C 185	-3.521	0.702	-3.672	1.00	36.54		C
ANISOU 8305	CZ3 TRP C 185	3344	6237	4304	836	-1472	194	C
ATOM 8306	CH2 TRP C 185	-2.501	1.432	-4.297	1.00	38.53		C
ANISOU 8306	CH2 TRP C 185	3283	6876	4480	743	-1435	347	C
ATOM 8307	OXT TRP C 185	-4.485	4.620	1.898	1.00	35.70		O
ANISOU 8307	OXT TRP C 185	4704	5194	3665	-669	-2044	585	O
ATOM 8308	H TRP C 185	-6.471	2.990	-0.755	1.00	38.35		H
ATOM 8309	HA TRP C 185	-5.886	2.433	1.738	1.00	41.15		H
ATOM 8310	HB2 TRP C 185	-3.664	1.984	1.656	1.00	44.39		H
ATOM 8311	HB3 TRP C 185	-4.339	0.968	0.642	1.00	44.39		H
ATOM 8312	HD1 TRP C 185	-2.052	3.827	0.588	1.00	49.24		H
ATOM 8313	HE1 TRP C 185	-0.946	4.040	-1.541	1.00	50.14		H
ATOM 8314	HE3 TRP C 185	-4.526	0.428	-1.936	1.00	42.88		H
ATOM 8315	HZ2 TRP C 185	-1.117	2.872	-4.043	1.00	48.06		H
ATOM 8316	HZ3 TRP C 185	-3.986	0.059	-4.157	1.00	43.85		H
ATOM 8317	HH2 TRP C 185	-2.305	1.266	-5.190	1.00	46.23		H
TER 8318	TRP C 185							
HETATM 8319	K K A 201	-7.319	-5.472	-26.177	1.00	17.24		K
HETATM 8320	K K B 201	-37.692	-16.388	-48.771	1.00	21.22		K
HETATM 8321	K K C 201	-10.727	-9.394	4.518	1.00	41.96		K
HETATM 8322	O HOH A 301	-9.339	-21.157	-3.388	1.00	44.07		O
HETATM 8323	O HOH A 302	-9.599	-8.614	-15.360	1.00	39.39		O
HETATM 8324	O HOH A 303	-10.229	-11.531	-6.671	0.89	37.20		O
HETATM 8325	O HOH A 304	-12.049	-22.967	-15.288	1.00	44.18		O
HETATM 8326	O HOH A 305	-14.217	-21.490	-16.673	1.00	47.88		O
HETATM 8327	O HOH A 306	2.746	-31.536	-32.761	0.91	27.90		O
HETATM 8328	O HOH A 307	-0.009	-7.455	-27.526	0.80	19.09		O
HETATM 8329	O HOH A 308	20.715	-27.009	-13.296	1.00	30.75		O
HETATM 8330	O HOH A 309	6.080	-1.039	-15.852	1.00	41.13		O
HETATM 8331	O HOH A 310	8.790	-14.535	-31.973	1.00	39.94		O
HETATM 8332	O HOH A 311	4.588	-12.892	-5.108	0.91	22.51		O
HETATM 8333	O HOH A 312	9.940	-34.355	-34.551	1.00	29.08		O
HETATM 8334	O HOH A 313	11.827	-19.020	-32.206	1.00	29.41		O
HETATM 8335	O AHOH A 314	14.338	-38.591	-15.199	0.59	20.58		O
HETATM 8336	O BHOH A 314	15.495	-40.071	-14.302	0.41	20.16		O
HETATM 8337	O HOH A 315	18.292	-10.734	-19.392	1.00	36.16		O
HETATM 8338	O HOH A 316	6.134	-7.517	-11.228	0.96	19.21		O
HETATM 8339	O HOH A 317	7.346	-35.849	-11.658	0.97	32.98		O
HETATM 8340	O HOH A 318	10.748	-9.066	-24.574	1.00	27.77		O
HETATM 8341	O HOH A 319	6.902	-22.110	-35.275	1.00	25.32		O
HETATM 8342	O HOH A 320	-7.045	-23.930	-4.819	1.00	35.53		O
HETATM 8343	O HOH A 321	3.695	-5.808	-25.176	1.00	17.43		O
HETATM 8344	O HOH A 322	9.220	-23.279	-4.612	1.00	35.34		O
HETATM 8345	O HOH A 323	3.232	-10.643	-4.755	1.00	33.11		O
HETATM 8346	O HOH A 324	10.043	-25.867	-5.523	1.00	18.98		O
HETATM 8347	O HOH A 325	6.040	-35.026	-24.918	1.00	13.30		O
HETATM 8348	O HOH A 326	13.860	-16.283	-14.386	1.00	13.60		O
HETATM 8349	O HOH A 327	14.470	-11.621	-8.460	1.00	43.82		O
HETATM 8350	O HOH A 328	14.660	-25.758	-29.578	1.00	22.80		O
HETATM 8351	O HOH A 329	-3.440	-38.841	-24.807	1.00	32.52		O

HETATM 8352	O	HOH A 330	7.224	-21.375	-26.865	1.00	11.67	O
HETATM 8353	O	HOH A 331	1.862	-6.239	-31.443	1.00	38.15	O
HETATM 8354	O	HOH A 332	18.375	-35.866	-16.322	1.00	26.84	O
HETATM 8355	O	HOH A 333	-1.264	-41.662	-22.983	1.00	39.83	O
HETATM 8356	O	HOH A 334	-6.685	-40.337	-18.540	0.96	37.26	O
HETATM 8357	O	HOH A 335	5.447	-15.242	-35.003	0.94	28.85	O
HETATM 8358	O	HOH A 336	16.487	-29.292	-28.867	1.00	34.14	O
HETATM 8359	O	HOH A 337	-3.543	-3.248	-28.058	1.00	22.47	O
HETATM 8360	O	HOH A 338	20.756	-34.427	-14.549	1.00	27.81	O
HETATM 8361	O	HOH A 339	-8.889	-4.528	-16.234	0.96	30.70	O
HETATM 8362	O	HOH A 340	-0.186	-28.229	-4.681	1.00	44.82	O
HETATM 8363	O	HOH A 341	18.119	-28.503	-27.065	1.00	24.60	O
HETATM 8364	O	HOH A 342	21.608	-21.574	-17.078	0.95	19.25	O
HETATM 8365	O	HOH A 343	16.047	-26.957	-22.810	1.00	11.78	O
HETATM 8366	O	HOH A 344	13.231	-31.946	-33.367	0.99	29.44	O
HETATM 8367	O	HOH A 345	21.961	-19.591	-15.022	0.93	34.32	O
HETATM 8368	O	HOH A 346	-5.321	-2.742	-16.824	1.00	31.19	O
HETATM 8369	O	HOH A 347	8.587	-6.955	-8.551	0.84	28.84	O
HETATM 8370	O	HOH A 348	16.106	-27.123	-25.646	1.00	11.73	O
HETATM 8371	O	HOH A 349	1.688	-6.705	-7.287	0.99	24.53	O
HETATM 8372	O	HOH A 350	7.950	-17.721	-0.792	1.00	33.81	O
HETATM 8373	O	HOH A 351	7.301	-9.966	-10.420	1.00	20.38	O
HETATM 8374	O	HOH A 352	9.746	-22.444	-34.690	1.00	21.86	O
HETATM 8375	O	HOH A 353	19.223	-22.052	-2.552	1.00	45.23	O
HETATM 8376	O	HOH A 354	-5.367	-2.216	-20.679	1.00	24.47	O
HETATM 8377	O	HOH A 355	13.575	-14.416	-10.127	1.00	17.91	O
HETATM 8378	O	HOH A 356	14.228	-8.577	-13.012	1.00	32.37	O
HETATM 8379	O	HOH A 357	1.277	-2.788	-7.310	1.00	51.44	O
HETATM 8380	O	HOH A 358	4.439	-25.016	-33.453	1.00	44.52	O
HETATM 8381	O	HOH A 359	19.220	-14.310	-23.437	0.99	25.38	O
HETATM 8382	O	HOH A 360	18.863	-25.383	-3.736	1.00	27.33	O
HETATM 8383	O	HOH A 361	16.711	-15.208	-22.683	1.00	24.81	O
HETATM 8384	O	HOH A 362	-6.930	-0.824	-26.575	0.78	26.97	O
HETATM 8385	O	HOH A 363	11.343	-23.750	-36.390	0.95	32.94	O
HETATM 8386	O	HOH A 364	-16.270	-16.989	-16.969	0.95	29.18	O
HETATM 8387	O	HOH A 365	12.073	-2.654	-20.584	1.00	40.69	O
HETATM 8388	O	HOH A 366	-6.634	-5.427	-18.517	0.93	29.57	O
HETATM 8389	O	HOH A 367	9.738	-0.969	-11.967	1.00	33.88	O
HETATM 8390	O	HOH A 368	-0.272	-7.349	-5.806	1.00	29.70	O
HETATM 8391	O	HOH A 369	11.681	-5.625	-16.951	1.00	41.30	O
HETATM 8392	O	HOH A 370	-6.693	-38.863	-28.231	0.98	36.57	O
HETATM 8393	O	HOH A 371	14.543	-10.553	-25.957	1.00	25.19	O
HETATM 8394	O	HOH A 372	18.013	-36.112	-23.943	1.00	11.72	O
HETATM 8395	O	HOH A 373	12.520	-9.147	-9.416	0.96	37.22	O
HETATM 8396	O	HOH A 374	22.436	-21.756	-12.398	0.87	30.32	O
HETATM 8397	O	HOH A 375	1.793	-2.833	-23.207	1.00	24.39	O
HETATM 8398	O	HOH A 376	20.122	-13.660	-14.791	1.00	27.65	O
HETATM 8399	O	HOH A 377	-11.446	-9.848	-22.944	0.98	29.92	O
HETATM 8400	O	HOH A 378	-11.476	-22.435	-23.453	1.00	34.04	O
HETATM 8401	O	HOH A 379	-9.055	-33.801	-21.449	0.99	41.65	O
HETATM 8402	O	HOH A 380	-2.472	-36.198	-16.262	0.93	26.71	O
HETATM 8403	O	HOH A 381	21.815	-14.028	-16.971	1.00	42.55	O
HETATM 8404	O	HOH A 382	21.949	-17.989	-21.275	0.91	40.88	O

HETATM 8405	O	HOH A 383	-12.721	-13.104	-7.895	1.00	38.02	O
HETATM 8406	O	HOH A 384	18.738	-23.129	-27.295	1.00	40.05	O
HETATM 8407	O	HOH A 385	-3.577	-18.517	-1.327	1.00	32.32	O
HETATM 8408	O	HOH A 386	3.971	-36.958	-13.855	1.00	38.44	O
HETATM 8409	O	HOH A 387	-3.354	-19.765	-32.165	1.00	38.19	O
HETATM 8410	O	HOH A 388	4.873	-32.402	-32.587	1.00	21.44	O
HETATM 8411	O	HOH A 389	-15.990	-19.972	-17.420	1.00	48.45	O
HETATM 8412	O	HOH A 390	4.302	-20.300	-34.234	1.00	35.10	O
HETATM 8413	O	HOH A 391	12.917	-13.524	-2.798	1.00	32.89	O
HETATM 8414	O	HOH A 392	19.895	-15.574	-7.940	1.00	49.91	O
HETATM 8415	O	HOH A 393	14.860	-17.419	-4.970	1.00	25.91	O
HETATM 8416	O	HOH A 394	5.931	-13.899	-32.187	1.00	20.30	O
HETATM 8417	O	HOH A 395	19.847	-34.591	-12.273	0.97	34.00	O
HETATM 8418	O	HOH A 396	-6.928	-32.588	-32.809	1.00	42.51	O
HETATM 8419	O	HOH A 397	18.913	-20.727	-25.028	1.00	33.02	O
HETATM 8420	O	HOH A 398	3.669	-39.747	-14.394	0.98	39.60	O
HETATM 8421	O	HOH A 399	5.683	-24.024	-1.735	1.00	51.54	O
HETATM 8422	O	HOH A 400	2.691	-22.028	-0.542	1.00	39.51	O
HETATM 8423	O	HOH A 401	10.969	-7.160	-9.786	1.00	42.94	O
HETATM 8424	O	HOH A 402	21.626	-28.369	-10.530	1.00	37.94	O
HETATM 8425	O	HOH A 403	20.958	-13.872	-11.324	1.00	42.63	O
HETATM 8426	O	HOH A 404	7.177	-37.720	-12.729	1.00	32.85	O
HETATM 8427	O	HOH A 405	-3.398	-29.127	-19.642	1.00	37.76	O
HETATM 8428	O	HOH A 406	-9.694	-21.699	-25.663	1.00	39.07	O
HETATM 8429	O	HOH A 407	5.030	-8.904	-3.424	0.92	32.51	O
HETATM 8430	O	HOH A 408	2.803	-3.123	-25.301	0.97	36.94	O
HETATM 8431	O	HOH A 409	3.080	-13.694	-35.828	1.00	53.04	O
HETATM 8432	O	HOH A 410	0.989	-14.435	-2.873	1.00	33.30	O
HETATM 8433	O	HOH A 411	2.478	-4.432	-5.943	1.00	42.21	O
HETATM 8434	O	HOH A 412	18.376	-23.493	-0.915	0.97	37.09	O
HETATM 8435	O	HOH A 413	14.047	-11.745	-3.444	1.00	48.80	O
HETATM 8436	O	HOH A 414	-9.150	-2.817	-22.592	0.88	31.56	O
HETATM 8437	O	HOH A 415	11.225	-38.674	-15.291	0.93	38.19	O
HETATM 8438	O	HOH A 416	16.468	-28.030	-30.885	1.00	46.91	O
HETATM 8439	O	HOH A 417	1.692	-31.198	-35.344	0.91	38.08	O
HETATM 8440	O	HOH A 418	-2.520	-39.832	-26.932	1.00	40.06	O
HETATM 8441	O	HOH A 419	20.190	-32.355	-7.758	1.00	42.70	O
HETATM 8442	O	HOH A 420	20.339	-10.973	-13.983	1.00	42.20	O
HETATM 8443	O	HOH A 421	20.488	-12.289	-21.491	0.95	37.72	O
HETATM 8444	O	HOH A 422	9.787	-38.480	-17.080	0.97	35.85	O
HETATM 8445	O	HOH A 423	15.944	-25.038	-27.298	1.00	16.52	O
HETATM 8446	O	HOH A 424	11.789	-20.592	-34.506	1.00	37.90	O
HETATM 8447	O	HOH B 301	-8.721	-20.561	-53.439	1.00	43.62	O
HETATM 8448	O	HOH B 302	0.249	-23.246	-40.752	0.96	37.32	O
HETATM 8449	O	HOH B 303	-5.106	-19.264	-46.225	1.00	36.83	O
HETATM 8450	O	HOH B 304	-15.221	-14.617	-24.431	1.00	50.95	O
HETATM 8451	O	HOH B 305	-32.482	-10.989	-49.681	0.94	31.59	O
HETATM 8452	O	HOH B 306	-20.994	3.176	-44.263	0.97	20.02	O
HETATM 8453	O	HOH B 307	-16.427	-30.072	-39.891	1.00	43.93	O
HETATM 8454	O	HOH B 308	-25.077	-36.208	-38.675	1.00	36.47	O
HETATM 8455	O	HOH B 309	-32.015	-23.527	-47.337	1.00	27.22	O
HETATM 8456	O	HOH B 310	-26.236	-2.194	-46.938	1.00	27.50	O
HETATM 8457	O	HOH B 311	-25.261	-26.022	-48.205	1.00	24.83	O

HETATM 8458	O	HOH B 312	-10.899	-7.012	-24.616	1.00	20.48	O
HETATM 8459	O	HOH B 313	-13.134	3.067	-42.478	1.00	11.62	O
HETATM 8460	O	HOH B 314	-17.443	-26.362	-48.090	1.00	34.48	O
HETATM 8461	O	HOH B 315	-0.799	-12.805	-38.145	0.83	32.26	O
HETATM 8462	O	HOH B 316	-33.087	-22.723	-28.732	1.00	36.22	O
HETATM 8463	O	HOH B 317	-2.987	-11.552	-47.729	1.00	36.76	O
HETATM 8464	O	HOH B 318	-4.910	-8.728	-51.798	1.00	43.85	O
HETATM 8465	O	HOH B 319	-30.621	1.117	-33.099	1.00	24.81	O
HETATM 8466	O	HOH B 320	-26.410	-30.408	-39.467	1.00	25.60	O
HETATM 8467	O	HOH B 321	-20.350	-2.421	-32.208	1.00	12.77	O
HETATM 8468	O	HOH B 322	-32.453	-9.849	-29.427	1.00	26.53	O
HETATM 8469	O	HOH B 323	-16.373	-11.528	-48.896	1.00	12.68	O
HETATM 8470	O	HOH B 324	-30.523	-32.817	-30.709	0.95	34.12	O
HETATM 8471	O	HOH B 325	-22.885	2.552	-36.526	0.92	22.48	O
HETATM 8472	O	HOH B 326	-1.141	-4.985	-44.506	0.92	37.45	O
HETATM 8473	O	HOH B 327	-28.284	-10.560	-26.911	1.00	19.48	O
HETATM 8474	O	HOH B 328	-5.639	1.751	-38.319	0.99	15.33	O
HETATM 8475	O	HOH B 329	-29.911	-6.410	-33.171	0.96	13.20	O
HETATM 8476	O	HOH B 330	-21.648	3.464	-41.448	1.00	22.54	O
HETATM 8477	O	HOH B 331	-18.525	-2.948	-36.275	0.94	7.74	O
HETATM 8478	O	HOH B 332	-23.224	-29.008	-38.096	1.00	23.17	O
HETATM 8479	O	HOH B 333	-26.391	2.321	-42.328	0.92	24.07	O
HETATM 8480	O	HOH B 334	-23.792	-20.115	-23.920	1.00	33.08	O
HETATM 8481	O	HOH B 335	-35.888	-7.606	-45.331	1.00	27.03	O
HETATM 8482	O	HOH B 336	-11.851	-10.336	-27.394	1.00	22.43	O
HETATM 8483	O	HOH B 337	-22.469	-0.545	-30.462	1.00	23.61	O
HETATM 8484	O	HOH B 338	-14.340	5.394	-38.662	1.00	29.94	O
HETATM 8485	O	HOH B 339	-7.179	-20.461	-31.671	0.89	38.19	O
HETATM 8486	O	HOH B 340	-25.606	-9.955	-27.046	1.00	15.20	O
HETATM 8487	O	HOH B 341	-32.102	-7.156	-47.453	1.00	26.14	O
HETATM 8488	O	HOH B 342	-20.363	-16.098	-53.747	1.00	30.54	O
HETATM 8489	O	HOH B 343	-4.644	-10.720	-57.484	0.99	29.08	O
HETATM 8490	O	HOH B 344	-32.728	-12.560	-28.114	1.00	27.36	O
HETATM 8491	O	HOH B 345	-11.933	-16.238	-58.357	1.00	44.04	O
HETATM 8492	O	HOH B 346	-35.703	-10.661	-36.120	1.00	26.22	O
HETATM 8493	O	HOH B 347	-16.652	2.619	-30.703	0.92	43.10	O
HETATM 8494	O	HOH B 348	-16.419	1.338	-27.692	1.00	37.88	O
HETATM 8495	O	HOH B 349	-27.050	-6.390	-32.405	0.92	15.61	O
HETATM 8496	O	HOH B 350	-22.192	-31.336	-30.959	1.00	46.35	O
HETATM 8497	O	HOH B 351	-38.191	-20.305	-47.364	1.00	23.52	O
HETATM 8498	O	HOH B 352	-37.442	-16.834	-40.343	1.00	44.83	O
HETATM 8499	O	HOH B 353	-39.053	-14.598	-39.108	1.00	42.25	O
HETATM 8500	O	HOH B 354	-5.005	-4.677	-47.990	1.00	20.31	O
HETATM 8501	O	HOH B 355	-35.873	-3.572	-37.788	0.92	48.31	O
HETATM 8502	O	HOH B 356	-36.033	-22.030	-45.983	1.00	25.63	O
HETATM 8503	O	HOH B 357	-29.937	-12.416	-26.010	1.00	36.72	O
HETATM 8504	O	HOH B 358	-21.592	0.905	-48.101	0.99	17.96	O
HETATM 8505	O	HOH B 359	1.227	-1.184	-41.433	1.00	35.34	O
HETATM 8506	O	HOH B 360	-29.525	-3.958	-30.467	1.00	21.06	O
HETATM 8507	O	HOH B 361	-18.098	-13.537	-55.891	0.87	27.53	O
HETATM 8508	O	HOH B 362	-20.222	-25.297	-27.703	0.97	24.68	O
HETATM 8509	O	HOH B 363	-31.601	-21.141	-27.044	1.00	40.96	O
HETATM 8510	O	HOH B 364	-7.682	-5.800	-44.492	1.00	12.52	O

HETATM 8511	O	HOH B 365	-39.712	-13.822	-42.772	0.94	22.58	O
HETATM 8512	O	HOH B 366	-15.063	-2.052	-24.817	0.75	23.06	O
HETATM 8513	O	HOH B 367	-13.646	-9.849	-56.106	0.78	13.61	O
HETATM 8514	O	HOH B 368	-9.528	-2.182	-49.151	1.00	29.53	O
HETATM 8515	O	HOH B 369	-10.163	-6.789	-55.207	1.00	39.82	O
HETATM 8516	O	HOH B 370	-0.693	-6.652	-30.164	1.00	24.46	O
HETATM 8517	O	HOH B 371	-10.202	-21.531	-35.273	0.88	28.53	O
HETATM 8518	O	HOH B 372	-8.698	-6.945	-51.201	0.99	27.01	O
HETATM 8519	O	HOH B 373	-14.842	-11.640	-56.774	1.00	37.71	O
HETATM 8520	O	HOH B 374	-4.623	-19.198	-50.899	1.00	28.44	O
HETATM 8521	O	HOH B 375	-19.774	-9.416	-22.825	0.95	17.69	O
HETATM 8522	O	HOH B 376	-32.385	-25.759	-43.221	0.92	23.58	O
HETATM 8523	O	HOH B 377	-18.112	3.722	-36.769	1.00	22.70	O
HETATM 8524	O	HOH B 378	-36.262	-6.896	-33.086	1.00	32.74	O
HETATM 8525	O	HOH B 379	-29.366	-7.754	-25.859	1.00	32.03	O
HETATM 8526	O	HOH B 380	-24.916	0.509	-32.299	1.00	44.52	O
HETATM 8527	O	HOH B 381	-17.507	4.848	-39.075	1.00	28.66	O
HETATM 8528	O	HOH B 382	-7.179	-5.951	-47.238	1.00	15.87	O
HETATM 8529	O	HOH B 383	-10.928	-14.105	-25.593	0.93	25.76	O
HETATM 8530	O	HOH B 384	-21.993	-6.694	-54.358	0.95	31.60	O
HETATM 8531	O	HOH B 385	-29.880	-29.219	-27.765	1.00	35.10	O
HETATM 8532	O	AHOH B 386	-13.292	-21.320	-36.293	0.55	20.93	O
HETATM 8533	O	BHOH B 386	-14.747	-22.571	-35.858	0.45	21.18	O
HETATM 8534	O	HOH B 387	-23.130	-1.468	-48.494	1.00	19.70	O
HETATM 8535	O	HOH B 388	-14.113	-21.257	-26.739	1.00	33.87	O
HETATM 8536	O	HOH B 389	-31.920	-25.835	-29.754	1.00	41.10	O
HETATM 8537	O	HOH B 390	-8.037	-3.066	-25.283	0.94	15.70	O
HETATM 8538	O	HOH B 391	-22.937	-19.982	-54.251	1.00	43.71	O
HETATM 8539	O	HOH B 392	-8.022	-26.343	-36.885	1.00	38.24	O
HETATM 8540	O	HOH B 393	-25.721	-1.456	-30.999	1.00	32.96	O
HETATM 8541	O	HOH B 394	-17.352	3.730	-32.951	1.00	24.92	O
HETATM 8542	O	HOH B 395	-6.522	-18.821	-52.994	1.00	25.38	O
HETATM 8543	O	HOH B 396	-2.424	-16.472	-37.310	1.00	34.48	O
HETATM 8544	O	HOH B 397	-11.467	-1.047	-47.160	0.84	18.70	O
HETATM 8545	O	HOH B 398	-16.621	-22.697	-26.340	1.00	35.34	O
HETATM 8546	O	HOH B 399	-19.677	-6.328	-54.606	1.00	33.61	O
HETATM 8547	O	HOH B 400	-25.102	1.013	-35.086	1.00	20.09	O
HETATM 8548	O	HOH B 401	-24.576	-27.887	-46.124	0.99	21.00	O
HETATM 8549	O	AHOH B 402	-38.154	-8.419	-40.697	0.57	20.10	O
HETATM 8550	O	BHOH B 402	-38.942	-6.503	-40.774	0.43	20.61	O
HETATM 8551	O	HOH B 403	-1.343	-10.158	-44.949	0.97	23.70	O
HETATM 8552	O	HOH B 404	-34.567	-0.658	-33.990	1.00	30.55	O
HETATM 8553	O	HOH B 405	-12.842	-7.774	-22.995	0.99	30.77	O
HETATM 8554	O	HOH B 406	-4.227	-20.634	-34.943	1.00	29.24	O
HETATM 8555	O	HOH B 407	-16.997	-2.685	-23.656	0.71	30.73	O
HETATM 8556	O	HOH B 408	-2.347	-18.613	-36.702	1.00	42.32	O
HETATM 8557	O	HOH B 409	-23.165	-9.218	-54.577	1.00	18.92	O
HETATM 8558	O	HOH B 410	-27.502	-3.640	-50.553	1.00	38.28	O
HETATM 8559	O	HOH B 411	-4.061	-17.750	-55.751	1.00	35.19	O
HETATM 8560	O	HOH B 412	0.252	-4.587	-35.211	1.00	34.18	O
HETATM 8561	O	HOH B 413	-35.791	-19.131	-34.448	1.00	48.06	O
HETATM 8562	O	HOH B 414	-22.482	-10.298	-57.122	1.00	33.19	O
HETATM 8563	O	HOH B 415	-5.388	-19.961	-32.493	0.99	38.13	O

HETATM 8564	O	HOH B 416	-19.126	-17.366	-52.486	1.00	29.58	O
HETATM 8565	O	HOH B 417	-30.966	1.579	-41.711	0.96	35.62	O
HETATM 8566	O	HOH B 418	-19.144	-0.002	-26.071	1.00	35.48	O
HETATM 8567	O	HOH B 419	-14.103	-10.245	-26.101	1.00	30.63	O
HETATM 8568	O	HOH B 420	-24.994	-2.995	-49.561	1.00	21.71	O
HETATM 8569	O	HOH B 421	-35.573	-8.763	-36.809	1.00	31.32	O
HETATM 8570	O	HOH B 422	-23.533	-26.624	-26.049	1.00	42.19	O
HETATM 8571	O	HOH B 423	-13.439	-13.935	-20.326	0.79	28.32	O
HETATM 8572	O	HOH B 424	-6.169	1.083	-31.899	1.00	39.35	O
HETATM 8573	O	HOH B 425	-37.429	-17.391	-34.727	0.93	21.00	O
HETATM 8574	O	HOH B 426	-17.372	-2.762	-26.935	0.88	18.76	O
HETATM 8575	O	HOH B 427	-4.448	-0.992	-32.108	1.00	27.38	O
HETATM 8576	O	HOH B 428	-18.065	-16.183	-23.206	1.00	32.03	O
HETATM 8577	O	HOH B 429	-1.542	-2.407	-31.750	0.98	37.62	O
HETATM 8578	O	HOH B 430	-31.800	-9.576	-54.647	1.00	42.35	O
HETATM 8579	O	HOH B 431	-30.490	-32.822	-27.801	1.00	32.01	O
HETATM 8580	O	HOH B 432	-15.533	-10.680	-23.410	1.00	49.55	O
HETATM 8581	O	HOH B 433	-8.618	1.737	-31.495	1.00	39.57	O
HETATM 8582	O	HOH B 434	-38.343	-8.412	-44.107	1.00	49.16	O
HETATM 8583	O	HOH B 435	-28.060	-6.490	-54.609	0.95	34.19	O
HETATM 8584	O	HOH B 436	-26.447	1.750	-45.260	0.95	36.33	O
HETATM 8585	O	HOH B 437	-2.234	-18.026	-34.320	0.94	25.50	O
HETATM 8586	O	HOH B 438	-4.834	-1.547	-28.501	0.83	23.60	O
HETATM 8587	O	HOH B 439	-17.002	-14.059	-22.782	1.00	40.14	O
HETATM 8588	O	HOH B 440	-18.629	-15.798	-55.060	0.81	31.55	O
HETATM 8589	O	HOH B 441	-2.579	-15.474	-45.582	1.00	35.94	O
HETATM 8590	O	HOH B 442	-19.629	-0.627	-51.741	0.87	29.07	O
HETATM 8591	O	HOH B 443	-40.611	-17.429	-45.222	1.00	31.49	O
HETATM 8592	O	HOH B 444	-36.911	-7.260	-37.603	0.88	35.66	O
HETATM 8593	O	HOH B 445	-34.533	-10.111	-51.085	1.00	35.39	O
HETATM 8594	O	HOH B 446	-1.524	-4.260	-29.854	1.00	28.78	O
HETATM 8595	O	HOH B 447	-23.206	-33.309	-44.925	1.00	42.72	O
HETATM 8596	O	HOH B 448	-23.751	-5.599	-54.530	1.00	31.81	O
HETATM 8597	O	HOH B 449	-16.522	-20.480	-19.488	1.00	48.74	O
HETATM 8598	O	HOH B 450	-26.028	-13.783	-25.194	0.97	30.86	O
HETATM 8599	O	HOH B 451	-11.636	-11.582	-24.865	1.00	58.48	O
HETATM 8600	O	HOH B 452	-7.521	1.385	-35.943	1.00	20.72	O
HETATM 8601	O	HOH B 453	-25.363	-11.068	-57.989	1.00	39.59	O
HETATM 8602	O	HOH B 454	-13.987	-5.839	-21.069	1.00	41.75	O
HETATM 8603	O	HOH B 455	1.394	-4.367	-33.121	1.00	42.14	O
HETATM 8604	O	HOH B 456	-6.644	-6.413	-52.359	1.00	45.60	O
HETATM 8605	O	HOH B 457	1.488	-3.748	-36.754	0.93	34.91	O
HETATM 8606	O	HOH B 458	-39.313	-16.470	-33.315	1.00	51.22	O
HETATM 8607	O	HOH B 459	-26.251	-8.051	-24.119	1.00	42.34	O
HETATM 8608	O	HOH B 460	-35.180	-5.567	-46.888	1.00	41.98	O
HETATM 8609	O	HOH B 461	-18.987	-19.527	-53.034	1.00	37.25	O
HETATM 8610	O	HOH B 462	-22.662	-25.066	-49.073	0.91	39.52	O
HETATM 8611	O	HOH B 463	-9.299	-5.298	-49.015	0.95	17.18	O
HETATM 8612	O	HOH B 464	-21.402	-22.977	-48.897	1.00	36.99	O
HETATM 8613	O	HOH C 301	-10.221	15.844	-20.793	0.89	33.78	O
HETATM 8614	O	HOH C 302	-14.358	24.235	-11.214	0.93	29.35	O
HETATM 8615	O	HOH C 303	-26.426	-2.508	-17.706	0.94	45.14	O
HETATM 8616	O	HOH C 304	-6.161	0.922	-11.054	0.97	30.41	O

HETATM 8617	O	HOH C 305	-19.697	5.670	8.380	1.00	30.80	O
HETATM 8618	O	HOH C 306	-30.948	15.266	-18.689	0.84	21.75	O
HETATM 8619	O	HOH C 307	-7.296	3.716	-12.502	1.00	32.75	O
HETATM 8620	O	HOH C 308	-31.653	15.868	-10.351	1.00	51.62	O
HETATM 8621	O	HOH C 309	-7.341	-2.826	-14.881	0.91	24.72	O
HETATM 8622	O	HOH C 310	-19.540	2.336	-23.007	0.93	33.75	O
HETATM 8623	O	HOH C 311	-16.822	24.351	-18.489	1.00	21.73	O
HETATM 8624	O	HOH C 312	-17.546	11.281	3.444	1.00	32.54	O
HETATM 8625	O	HOH C 313	-2.040	14.507	-1.512	1.00	43.38	O
HETATM 8626	O	HOH C 314	-18.701	16.766	12.137	0.85	26.70	O
HETATM 8627	O	HOH C 315	-23.887	26.202	-6.227	0.92	31.34	O
HETATM 8628	O	HOH C 316	-5.934	-0.217	2.996	0.82	22.43	O
HETATM 8629	O	HOH C 317	-9.487	12.836	-9.134	1.00	25.03	O
HETATM 8630	O	HOH C 318	-3.558	14.426	1.155	1.00	53.36	O
HETATM 8631	O	HOH C 319	-28.299	8.677	-8.468	1.00	41.11	O
HETATM 8632	O	HOH C 320	-13.581	-11.943	2.738	1.00	30.98	O
HETATM 8633	O	HOH C 321	-3.996	2.619	-13.824	0.99	26.52	O
HETATM 8634	O	HOH C 322	-18.835	14.185	-18.384	1.00	26.25	O
HETATM 8635	O	HOH C 323	-11.120	2.532	-17.668	0.89	21.44	O
HETATM 8636	O	HOH C 324	-17.340	21.731	1.161	0.98	28.57	O
HETATM 8637	O	HOH C 325	-28.530	9.258	-18.765	0.88	28.62	O
HETATM 8638	O	HOH C 326	-2.714	5.515	-12.352	0.98	32.06	O
HETATM 8639	O	HOH C 327	-18.510	8.789	10.368	1.00	31.69	O
HETATM 8640	O	HOH C 328	-17.280	-8.005	-17.748	1.00	39.06	O
HETATM 8641	O	HOH C 329	0.998	4.527	-11.152	0.90	31.85	O
HETATM 8642	O	HOH C 330	-6.756	15.370	-0.832	0.96	32.99	O
HETATM 8643	O	HOH C 331	-7.683	11.551	-13.098	1.00	41.83	O
HETATM 8644	O	HOH C 332	-9.936	0.228	-17.712	1.00	34.43	O
HETATM 8645	O	HOH C 333	-25.672	25.052	-3.133	1.00	38.05	O
HETATM 8646	O	HOH C 334	-19.804	-9.162	2.829	1.00	50.74	O
HETATM 8647	O	HOH C 335	-8.671	-2.593	7.939	1.00	38.67	O
HETATM 8648	O	HOH C 336	-13.485	14.905	8.318	1.00	48.32	O
HETATM 8649	O	HOH C 337	-24.587	6.183	-28.601	1.00	22.74	O
HETATM 8650	O	HOH C 338	-29.874	13.818	-14.430	1.00	42.76	O
HETATM 8651	O	HOH C 339	-13.147	7.410	-22.482	0.90	34.71	O
HETATM 8652	O	HOH C 340	-14.453	24.928	-17.483	1.00	37.66	O
HETATM 8653	O	HOH C 341	-8.675	22.599	-12.002	0.84	28.58	O
HETATM 8654	O	HOH C 342	-2.001	14.020	-4.056	1.00	46.99	O
HETATM 8655	O	HOH C 343	-7.362	12.990	6.057	0.86	29.23	O
HETATM 8656	O	HOH C 344	-4.288	11.468	2.667	0.91	27.78	O
HETATM 8657	O	HOH C 345	-5.707	7.317	2.142	0.94	36.15	O
HETATM 8658	O	HOH C 346	-4.891	9.971	-14.661	1.00	51.24	O
HETATM 8659	O	HOH C 347	-5.724	12.215	-18.947	1.00	41.21	O
HETATM 8660	O	HOH C 348	-3.300	16.320	-8.754	1.00	40.17	O
HETATM 8661	O	HOH C 349	-17.434	12.173	-19.203	0.99	30.30	O
HETATM 8662	O	HOH C 350	-2.328	9.448	-10.020	0.92	33.87	O
HETATM 8663	O	HOH C 351	-20.512	5.587	-22.193	0.97	38.84	O
HETATM 8664	O	HOH C 352	-10.744	15.647	8.460	1.00	39.55	O
HETATM 8665	O	HOH C 353	-21.129	-10.655	1.957	1.00	51.25	O
HETATM 8666	O	HOH C 354	-12.608	6.547	9.667	0.99	31.91	O
HETATM 8667	O	HOH C 355	-1.025	5.846	-5.522	1.00	34.17	O
HETATM 8668	O	HOH C 356	-14.441	21.003	-20.999	1.00	30.68	O
HETATM 8669	O	HOH C 357	-2.963	16.847	-12.226	1.00	40.60	O

HETATM 8670	O	HOH C 358	-5.873	7.995	4.690	1.00	49.57	O
HETATM 8671	O	HOH C 359	-18.779	7.132	-22.435	1.00	35.65	O
HETATM 8672	O	HOH C 360	-3.681	7.690	-13.454	1.00	46.34	O
HETATM 8673	O	HOH C 361	-4.067	-4.260	0.984	1.00	38.16	O
HETATM 8674	O	HOH C 362	-26.451	20.503	-1.510	1.00	42.31	O
HETATM 8675	O	HOH C 363	-1.919	-0.704	-16.585	1.00	43.51	O
HETATM 8676	O	HOH C 364	-21.638	6.080	7.439	0.92	37.65	O
HETATM 8677	O	HOH C 365	-9.226	13.384	-18.848	1.00	32.76	O
HETATM 8678	O	HOH C 366	-21.571	10.943	-21.441	1.00	36.57	O
HETATM 8679	O	HOH C 367	-6.529	10.110	-20.019	1.00	35.49	O
HETATM 8680	O	HOH C 368	-2.265	2.568	-16.308	1.00	44.15	O
HETATM 8681	O	HOH C 369	-6.360	-8.018	7.012	1.00	27.50	O
HETATM 8682	O	HOH C 370	-29.234	5.795	-4.066	1.00	37.18	O
HETATM 8683	O	HOH C 371	-4.212	-1.951	2.876	0.96	36.60	O
HETATM 8684	O	HOH C 372	-26.492	5.093	-23.726	0.97	37.58	O
HETATM 8685	O	HOH C 373	-14.098	-13.773	-6.449	0.90	38.20	O
HETATM 8686	O	HOH C 374	-0.521	15.092	-12.369	1.00	41.29	O
HETATM 8687	O	HOH C 375	-21.356	8.069	10.448	1.00	38.21	O
HETATM 8688	O	HOH C 376	-26.885	4.285	-27.201	1.00	50.44	O
HETATM 8689	O	HOH C 377	-18.035	-10.580	3.042	1.00	46.13	O
HETATM 8690	O	HOH C 378	-23.877	4.610	6.578	0.99	37.49	O
HETATM 8691	O	HOH C 379	-11.086	1.974	-20.823	1.00	42.99	O
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