

Sheet1

HEADER BIOTIN-BINDING PROTEIN 28-AUG-02 XXXX
 TITLE WILDTYPE CORE-STREPTAVIDIN WITH BIOTIN AT 1.4A.
 COMPND STREPTAVIDIN
 KEYWDS HOMODIMER
 EXPDTA X-RAY DIFFRACTION
 AUTHOR D.E.HYRE
 AUTHOR 2 P.S.STAYTON
 JRNL AUTH D.E.HYRE
 JRNL AUTH 2 N.M.GREEN
 JRNL TITL COOPERATIVE HYDROGEN BOND INTERACTIONS IN THE
 JRNL TITL 2 STREPTAVIDIN-BIOTIN SYSTEM
 JRNL REF PROTEIN SCI. V. 15 459 2006
 JRNL REFN ASTM PRCEI US ISSN 0961-8368
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 SEQRES 1 A 127 ALA GLU ALA GLY ILE THR GLY THR TRP TYR ASN GLN
 SEQRES 2 A 127 GLY SER THR PHE ILE VAL THR ALA GLY ALA ASP GLY
 SEQRES 3 A 127 LEU THR GLY THR TYR GLU SER ALA VAL GLY ASN ALA
 SEQRES 4 A 127 SER ARG TYR VAL LEU THR GLY ARG TYR ASP SER AL
 SEQRES 5 A 127 ALA THR ASP GLY SER GLY THR ALA LEU GLY TRP THF
 SEQRES 6 A 127 ALA TRP LYS ASN ASN TYR ARG ASN ALA HIS SER ALA
 SEQRES 7 A 127 THR TRP SER GLY GLN TYR VAL GLY GLY ALA GLU ALA
 SEQRES 8 A 127 ILE ASN THR GLN TRP LEU LEU THR SER GLY THR THR
 SEQRES 9 A 127 ALA ASN ALA TRP LYS SER THR LEU VAL GLY HIS ASP
 SEQRES 10 A 127 PHE THR LYS VAL LYS PRO SER ALA ALA SER
 SEQRES 1 B 127 ALA GLU ALA GLY ILE THR GLY THR TRP TYR ASN GLN
 SEQRES 2 B 127 GLY SER THR PHE ILE VAL THR ALA GLY ALA ASP GLY
 SEQRES 3 B 127 LEU THR GLY THR TYR GLU SER ALA VAL GLY ASN ALA
 SEQRES 4 B 127 SER ARG TYR VAL LEU THR GLY ARG TYR ASP SER AL
 SEQRES 5 B 127 ALA THR ASP GLY SER GLY THR ALA LEU GLY TRP THF
 SEQRES 6 B 127 ALA TRP LYS ASN ASN TYR ARG ASN ALA HIS SER ALA
 SEQRES 7 B 127 THR TRP SER GLY GLN TYR VAL GLY GLY ALA GLU ALA
 SEQRES 8 B 127 ILE ASN THR GLN TRP LEU LEU THR SER GLY THR THR
 SEQRES 9 B 127 ALA ASN ALA TRP LYS SER THR LEU VAL GLY HIS ASP
 SEQRES 10 B 127 PHE THR LYS VAL LYS PRO SER ALA ALA SER
 HETNAM BTN BIOTIN
 FORMUL 3 BTN 2(C10 H16 N2 O3 S)
 FORMUL 5 HOH *239(H2 O)
 HELIX 1 1 THR A 115 LYS A 121 5 7
 HELIX 2 2 THR B 115 LYS B 121 5 7
 SHEET 1 A 9 GLY A 19 ASN A 23 0
 SHEET 2 A 9 THR A 28 ALA A 33 -1 O PHE A 29 N TRP A 21
 SHEET 3 A 9 ALA A 38 GLU A 44 -1 O GLU A 44 N THR A 28
 SHEET 4 A 9 TYR A 54 TYR A 60 -1 O TYR A 54 N TYR A 43
 SHEET 5 A 9 THR A 71 LYS A 80 -1 O THR A 76 N THR A 57
 SHEET 6 A 9 ASN A 85 VAL A 97 -1 O TYR A 96 N THR A 71
 SHEET 7 A 9 ARG A 103 SER A 112 -1 O ARG A 103 N VAL A 97
 SHEET 8 A 9 THR A 123 VAL A 133 -1 O PHE A 130 N ILE A 104
 SHEET 9 A 9 GLY A 19 ASN A 23 -1 N THR A 20 O VAL A 133
 SHEET 1 B 9 GLY B 19 ASN B 23 0
 SHEET 2 B 9 THR B 28 ALA B 33 -1 O PHE B 29 N TRP B 21
 SHEET 3 B 9 ALA B 38 GLU B 44 -1 O THR B 42 N ILE B 30
 SHEET 4 B 9 TYR B 54 TYR B 60 -1 O TYR B 54 N TYR B 43
 SHEET 5 B 9 THR B 71 LYS B 80 -1 O THR B 76 N THR B 57
 SHEET 6 B 9 ASN B 85 VAL B 97 -1 O TYR B 96 N THR B 71
 SHEET 7 B 9 ARG B 103 SER B 112 -1 O ARG B 103 N VAL B 97

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SHEET  8  B 9 THR B 123 THR B 131 -1 O PHE B 130 N ILE B 104
SHEET  9  B 9 GLY B 19 ASN B 23 -1 N TYR B 22 O THR B 131
SITE   1 AC1 15 ASN A 23 LEU A 25 SER A 27 TYR A 43
SITE   2 AC1 15 SER A 45 VAL A 47 GLY A 48 ASN A 49
SITE   3 AC1 15 TRP A 79 SER A 88 THR A 90 TRP A 108
SITE   4 AC1 15 ASP A 128 HOH A6154 TRP B 120
SITE   1 AC2 15 TRP A 120 ASN B 23 LEU B 25 SER B 27
SITE   2 AC2 15 TYR B 43 SER B 45 VAL B 47 ASN B 49
SITE   3 AC2 15 TRP B 79 SER B 88 THR B 90 TRP B 108
SITE   4 AC2 15 LEU B 110 ASP B 128 HOH B6205
CRYST1 46.305 93.414 103.931 90.00 90.00 90.00 | 2 2 2 16
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 0.021596 0.000000 0.000000 0.000000
SCALE2 0.000000 0.010705 0.000000 0.000000
SCALE3 0.000000 0.000000 0.009622 0.000000
MODEL 1
ATOM   1 N GLU A 14 5.843 8.434 15.503 1.00 53.74 N
ANISOU 1 N GLU A 14 8289 3315 8816 597 -43 1195 N
ATOM   2 CA GLU A 14 6.149 8.766 16.898 1.00 52.97 C
ANISOU 2 CA GLU A 14 6613 3639 9875 -313 -942 102 C
ATOM   3 C GLU A 14 6.532 7.621 17.817 1.00 48.00 C
ANISOU 3 C GLU A 14 6523 3764 7952 -1042 -740 -273 C
ATOM   4 O GLU A 14 7.526 7.514 18.518 1.00 36.82 O
ANISOU 4 O GLU A 14 5812 3028 5151 -41 748 -1873 O
ATOM   5 CB GLU A 14 4.921 9.403 17.590 1.00 58.23 C
ANISOU 5 CB GLU A 14 7804 3914 10408 -195 -504 -1358 C
ATOM   6 CG GLU A 14 4.939 9.244 19.115 1.00 62.44 C
ANISOU 6 CG GLU A 14 8211 5329 10183 -1988 -814 -2457 C
ATOM   7 CD GLU A 14 4.063 10.255 19.833 1.00 70.23 C
ANISOU 7 CD GLU A 14 9008 6572 11105 -1956 -769 -3974 C
ATOM   8 OE1 GLU A 14 4.065 11.442 19.431 1.00 75.10 O
ANISOU 8 OE1 GLU A 14 10576 5948 12013 -1395 -1587 -4749 O
ATOM   9 OE2 GLU A 14 3.365 9.881 20.807 1.00 82.05 O
ANISOU 9 OE2 GLU A 14 11208 9169 10798 -2111 367 -4624 O
ATOM  10 N ALA A 15 5.643 6.605 17.885 1.00 46.91 N
ANISOU 10 N ALA A 15 5797 4347 7678 -955 470 -272 N
ATOM  11 CA ALA A 15 6.203 5.471 18.643 1.00 41.93 C
ANISOU 11 CA ALA A 15 5937 4258 5738 -1396 761 -479 C
ATOM  12 C ALA A 15 7.211 4.910 17.635 1.00 39.79 C
ANISOU 12 C ALA A 15 4487 5251 5380 -1010 108 60 C
ATOM  13 O ALA A 15 8.300 4.495 17.994 1.00 54.17 O
ANISOU 13 O ALA A 15 3240 11232 6108 -1815 -761 -1026 O
ATOM  14 CB ALA A 15 5.106 4.575 19.133 1.00 46.60 C
ANISOU 14 CB ALA A 15 4854 6935 5917 -1337 344 1117 C
ATOM  15 N GLY A 16 6.823 5.034 16.377 1.00 36.20 N
ANISOU 15 N GLY A 16 3609 4793 5351 -1934 170 -87 N
ATOM  16 CA GLY A 16 7.636 4.852 15.216 1.00 27.04 C
ANISOU 16 CA GLY A 16 2453 2609 5211 -748 -390 686 C
ATOM  17 C GLY A 16 9.019 5.421 15.385 1.00 20.51 C
ANISOU 17 C GLY A 16 2409 1828 3556 -222 -1092 792 C
ATOM  18 O GLY A 16 10.014 4.702 15.332 1.00 18.73 O
ANISOU 18 O GLY A 16 2564 1907 2648 -133 -320 279 O
ATOM  19 N ILE A 17 9.073 6.731 15.582 1.00 16.43 N
ANISOU 19 N ILE A 17 1994 2089 2158 -92 -219 52 N

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ATOM	20	CA	ILE A 17	10.375	7.389	15.574	1.00	15.09	C
ANISOU	20	CA	ILE A 17	1967	1820	1946	61	-173 -368	C
ATOM	21	C	ILE A 17	11.172	7.123	16.839	1.00	13.82	C
ANISOU	21	C	ILE A 17	1785	1859	1608	168	128 -485	C
ATOM	22	O	ILE A 17	12.393	6.969	16.860	1.00	13.31	O
ANISOU	22	O	ILE A 17	1689	1713	1656	-135	136 59	O
ATOM	23	CB	ILE A 17	10.175	8.911	15.370	1.00	14.61	C
ANISOU	23	CB	ILE A 17	2242	1676	1635	63	-287 -699	C
ATOM	24	CG1	ILE A 17	9.681	9.207	13.953	1.00	15.94	C
ANISOU	24	CG1	ILE A 17	2302	1892	1864	221	-467 -519	C
ATOM	25	CG2	ILE A 17	11.466	9.645	15.654	1.00	15.41	C
ANISOU	25	CG2	ILE A 17	2238	1955	1663	-64	-272 -554	C
ATOM	26	CD1	ILE A 17	9.126	10.567	13.701	1.00	17.51	C
ANISOU	26	CD1	ILE A 17	2832	1939	1882	470	2 -427	C
ATOM	27	N	THR A 18	10.454	7.054	17.964	1.00	14.71	N
ANISOU	27	N	THR A 18	1873	1870	1845	57	314 -410	N
ATOM	28	CA	THR A 18	11.126	6.882	19.228	1.00	13.75	C
ANISOU	28	CA	THR A 18	1758	1711	1753	-86	566 141	C
ATOM	29	C	THR A 18	11.913	5.595	19.304	1.00	14.02	C
ANISOU	29	C	THR A 18	1630	1451	2245	-346	909 487	C
ATOM	30	O	THR A 18	11.388	4.518	19.037	1.00	15.46	O
ANISOU	30	O	THR A 18	1532	1726	2617	-303	714 77	O
ATOM	31	CB	THR A 18	10.052	6.836	20.331	1.00	13.54	C
ANISOU	31	CB	THR A 18	1584	1358	2203	16	679 970	C
ATOM	32	OG1	THR A 18	9.429	8.092	20.482	1.00	13.66	O
ANISOU	32	OG1	THR A 18	1677	1532	1980	45	572 339	O
ATOM	33	CG2	THR A 18	10.728	6.514	21.657	1.00	14.20	C
ANISOU	33	CG2	THR A 18	2319	1327	1750	176	594 239	C
ATOM	34	N	GLY A 19	13.157	5.729	19.673	1.00	12.62	N
ANISOU	34	N	GLY A 19	1774	1140	1882	-99	702 -111	N
ATOM	35	CA	GLY A 19	14.038	4.584	19.812	1.00	13.82	C
ANISOU	35	CA	GLY A 19	1981	1213	2058	-40	746 153	C
ATOM	36	C	GLY A 19	15.504	4.917	19.575	1.00	11.60	C
ANISOU	36	C	GLY A 19	1828	1340	1239	46	347 -131	C
ATOM	37	O	GLY A 19	15.913	6.077	19.622	1.00	12.66	O
ANISOU	37	O	GLY A 19	1799	1377	1635	-81	321 -66	O
ATOM	38	N	THR A 20	16.257	3.843	19.312	1.00	12.37	N
ANISOU	38	N	THR A 20	1927	1434	1339	187	395 19	N
ATOM	39	CA	THR A 20	17.672	3.903	19.002	1.00	11.69	C
ANISOU	39	CA	THR A 20	1898	1262	1283	96	375 43	C
ATOM	40	C	THR A 20	17.893	3.578	17.529	1.00	11.49	C
ANISOU	40	C	THR A 20	1752	1267	1348	-168	327 -236	C
ATOM	41	O	THR A 20	17.330	2.632	16.990	1.00	13.78	O
ANISOU	41	O	THR A 20	1893	1342	2000	-118	310 -494	O
ATOM	42	CB	THR A 20	18.414	2.903	19.915	1.00	14.18	C
ANISOU	42	CB	THR A 20	1990	1729	1670	160	163 249	C
ATOM	43	OG1	THR A 20	18.223	3.256	21.283	1.00	15.85	O
ANISOU	43	OG1	THR A 20	2539	2011	1472	-66	125 402	O
ATOM	44	CG2	THR A 20	19.912	2.955	19.719	1.00	16.25	C
ANISOU	44	CG2	THR A 20	1899	1882	2393	179	106 -24	C
ATOM	45	N	TRP A 21	18.738	4.360	16.911	1.00	11.20	N
ANISOU	45	N	TRP A 21	1618	1340	1297	42	353 -109	N
ATOM	46	CA	TRP A 21	19.048	4.306	15.500	1.00	11.19	C
ANISOU	46	CA	TRP A 21	1677	1169	1406	110	474 -223	C
ATOM	47	C	TRP A 21	20.539	4.346	15.277	1.00	12.24	C
ANISOU	47	C	TRP A 21	1607	1642	1403	126	373 -45	C

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ATOM	48	O	TRP	A	21	21.235	5.002	16.079	1.00	12.55	O	
ANISOU	48	O	TRP	A	21	1710	1575	1484	21	414	-65	O
ATOM	49	CB	TRP	A	21	18.401	5.513	14.837	1.00	11.73	C	
ANISOU	49	CB	TRP	A	21	1542	1430	1486	-6	347	37	C
ATOM	50	CG	TRP	A	21	16.923	5.635	15.022	1.00	11.38	C	
ANISOU	50	CG	TRP	A	21	1487	1414	1421	-86	370	65	C
ATOM	51	CD1	TRP	A	21	16.237	6.076	16.113	1.00	12.53	C	
ANISOU	51	CD1	TRP	A	21	1691	1513	1556	-174	509	-219	C
ATOM	52	CD2	TRP	A	21	15.962	5.295	14.009	1.00	10.91	C	
ANISOU	52	CD2	TRP	A	21	1539	1349	1257	192	318	206	C
ATOM	53	NE1	TRP	A	21	14.876	6.025	15.835	1.00	13.04	N	
ANISOU	53	NE1	TRP	A	21	1662	1496	1796	-40	555	-209	N
ATOM	54	CE2	TRP	A	21	14.692	5.552	14.561	1.00	11.14	C	
ANISOU	54	CE2	TRP	A	21	1432	1229	1574	98	379	252	C
ATOM	55	CE3	TRP	A	21	16.059	4.803	12.705	1.00	12.15	C	
ANISOU	55	CE3	TRP	A	21	1658	1420	1539	-193	356	-143	C
ATOM	56	CZ2	TRP	A	21	13.552	5.312	13.804	1.00	12.87	C	
ANISOU	56	CZ2	TRP	A	21	1539	1436	1915	15	300	128	C
ATOM	57	CZ3	TRP	A	21	14.912	4.570	11.965	1.00	13.33	C	
ANISOU	57	CZ3	TRP	A	21	1760	1679	1626	-414	276	-79	C
ATOM	58	CH2	TRP	A	21	13.656	4.831	12.529	1.00	12.32	C	
ANISOU	58	CH2	TRP	A	21	1692	1303	1684	-59	133	424	C
ATOM	59	N	TYR	A	22	21.002	3.706	14.208	1.00	13.53	N	
ANISOU	59	N	TYR	A	22	1484	1517	2140	-77	557	-535	N
ATOM	60	CA	ATYR	A	22	22.427	3.810	13.851	0.50	12.27	C	
ANISOU	60	CA	ATYR	A	22	1453	1300	1909	54	482	45	C
ATOM	61	CA	BTYR	A	22	22.391	3.871	13.793	0.50	12.36	C	
ANISOU	61	CA	BTYR	A	22	1500	1294	1903	-10	532	-58	C
ATOM	62	C	ATYR	A	22	22.551	4.169	12.375	0.50	11.75	C	
ANISOU	62	C	ATYR	A	22	1405	1031	2028	102	226	310	C
ATOM	63	C	BTYR	A	22	22.448	4.300	12.337	0.50	12.18	C	
ANISOU	63	C	BTYR	A	22	1441	1144	2041	-72	181	201	C
ATOM	64	O	ATYR	A	22	21.716	3.711	11.580	0.50	14.25	O	
ANISOU	64	O	ATYR	A	22	1895	1650	1868	-479	558	-164	O
ATOM	65	O	BTYR	A	22	21.532	4.024	11.554	0.50	11.92	O	
ANISOU	65	O	BTYR	A	22	1226	1075	2230	402	181	-224	O
ATOM	66	CB	ATYR	A	22	23.170	2.522	14.145	0.50	10.49	C	
ANISOU	66	CB	ATYR	A	22	1751	1402	831	168	13	-219	C
ATOM	67	CB	BTYR	A	22	23.167	2.568	13.948	0.50	10.33	C	
ANISOU	67	CB	BTYR	A	22	1403	1246	1277	-107	79	-116	C
ATOM	68	CG	ATYR	A	22	23.121	1.960	15.546	0.50	10.29	C	
ANISOU	68	CG	ATYR	A	22	1990	1245	674	-230	278	-432	C
ATOM	69	CG	BTYR	A	22	22.841	1.597	12.838	0.50	8.88	C	
ANISOU	69	CG	BTYR	A	22	1338	1110	926	-47	-257	214	C
ATOM	70	CD1	ATYR	A	22	22.770	0.632	15.769	0.50	12.15	C	
ANISOU	70	CD1	ATYR	A	22	2316	1464	837	-623	178	-412	C
ATOM	71	CD1	BTYR	A	22	23.714	1.382	11.778	0.50	8.60	C	
ANISOU	71	CD1	BTYR	A	22	1496	649	1122	-329	-93	74	C
ATOM	72	CD2	ATYR	A	22	23.639	2.641	16.640	0.50	12.04	C	
ANISOU	72	CD2	ATYR	A	22	2501	1278	796	-262	115	-482	C
ATOM	73	CD2	BTYR	A	22	21.722	0.770	12.939	0.50	9.42	C	
ANISOU	73	CD2	BTYR	A	22	1256	1170	1152	-6	-82	59	C
ATOM	74	CE1	ATYR	A	22	22.864	0.061	17.031	0.50	12.92	C	
ANISOU	74	CE1	ATYR	A	22	2610	1236	1063	-583	-125	-258	C
ATOM	75	CE1	BTYR	A	22	23.488	0.358	10.881	0.50	10.11	C	
ANISOU	75	CE1	BTYR	A	22	1383	913	1545	-111	-343	-280	C

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ATOM	76	CE2ATYR A 22	23.698	2.096	17.915	0.50	12.73	C
ANISOU	76	CE2ATYR A 22	2803	1376	658	-413	167 -646	C
ATOM	77	CE2BTYR A 22	21.565	-0.340	12.121	0.50	11.77	C
ANISOU	77	CE2BTYR A 22	1606	1310	1558	-190 -214 -120		C
ATOM	78	CZ ATYR A 22	23.272	0.808	18.112	0.50	15.01	C
ANISOU	78	CZ ATYR A 22	2927	1623	1154	-695 -801 -33		C
ATOM	79	CZ BTYR A 22	22.416	-0.520	11.052	0.50	9.82	C
ANISOU	79	CZ BTYR A 22	1631	685	1413	-153 -314 -174		C
ATOM	80	OH ATYR A 22	23.152	0.293	19.386	0.50	18.95	O
ANISOU	80	OH ATYR A 22	4551	1377	1272	-392 -1626 251		O
ATOM	81	OH BTYR A 22	22.256	-1.544	10.147	0.50	11.99	O
ANISOU	81	OH BTYR A 22	2558	709	1289	-440 -446 -55		O
ATOM	82	N ASN A 23	23.544	4.978	11.988	1.00	12.86	N
ANISOU	82	N ASN A 23	1489	1329	2070	-72 324 241		N
ATOM	83	CA ASN A 23	23.746	5.281	10.572	1.00	12.23	C
ANISOU	83	CA ASN A 23	1344	1231	2073	34 163 357		C
ATOM	84	C ASN A 23	24.942	4.501	10.003	1.00	12.29	C
ANISOU	84	C ASN A 23	1526	1558	1585	266 -154 -14		C
ATOM	85	O ASN A 23	25.569	3.681	10.672	1.00	12.82	O
ANISOU	85	O ASN A 23	1637	1326	1908	256 -30 204		O
ATOM	86	CB ASN A 23	23.856	6.784	10.326	1.00	12.21	C
ANISOU	86	CB ASN A 23	1454	1236	1947	-50 -8 229		C
ATOM	87	CG ASN A 23	25.130	7.418	10.818	1.00	10.56	C
ANISOU	87	CG ASN A 23	1551	1215	1246	-34 -129 464		C
ATOM	88	OD1 ASN A 23	26.103	6.756	11.155	1.00	11.88	O
ANISOU	88	OD1 ASN A 23	1517	1384	1613	168 -35 243		O
ATOM	89	ND2 ASN A 23	25.127	8.740	10.838	1.00	11.77	N
ANISOU	89	ND2 ASN A 23	1537	1173	1761	-85 192 308		N
ATOM	90	N GLN A 24	25.194	4.772	8.731	1.00	12.40	N
ANISOU	90	N GLN A 24	1696	1614	1403	102 -353 -260		N
ATOM	91	CA GLN A 24	26.208	4.037	7.978	1.00	14.13	C
ANISOU	91	CA GLN A 24	2071	1649	1648	82 75 -177		C
ATOM	92	C GLN A 24	27.618	4.308	8.435	1.00	12.56	C
ANISOU	92	C GLN A 24	1933	1214	1625	414 215 -54		C
ATOM	93	O GLN A 24	28.541	3.562	8.092	1.00	15.48	O
ANISOU	93	O GLN A 24	2468	1839	1575	1018 -77 -379		O
ATOM	94	CB GLN A 24	26.053	4.381	6.500	1.00	13.70	C
ANISOU	94	CB GLN A 24	1401	2034	1769	-85 347 152		C
ATOM	95	CG GLN A 24	26.481	5.770	6.082	1.00	13.84	C
ANISOU	95	CG GLN A 24	1440	1893	1926	-39 305 40		C
ATOM	96	CD GLN A 24	25.682	6.954	6.575	1.00	16.65	C
ANISOU	96	CD GLN A 24	1795	2118	2413	219 110 -261		C
ATOM	97	OE1 GLN A 24	24.529	6.918	6.981	1.00	16.44	O
ANISOU	97	OE1 GLN A 24	1894	1509	2844	506 333 411		O
ATOM	98	NE2 GLN A 24	26.350	8.105	6.544	1.00	15.57	N
ANISOU	98	NE2 GLN A 24	1771	1991	2155	365 375 -183		N
ATOM	99	N LEU A 25	27.815	5.387	9.158	1.00	10.96	N
ANISOU	99	N LEU A 25	1595	1149	1420	456 27 31		N
ATOM	100	CA LEU A 25	29.125	5.633	9.744	1.00	11.71	C
ANISOU	100	CA LEU A 25	1308	1631	1509	524 212 127		C
ATOM	101	C LEU A 25	29.317	4.923	11.071	1.00	11.06	C
ANISOU	101	C LEU A 25	1447	1560	1196	482 146 -254		C
ATOM	102	O LEU A 25	30.439	4.940	11.603	1.00	14.81	O
ANISOU	102	O LEU A 25	1762	2213	1651	258 -265 62		O
ATOM	103	CB LEU A 25	29.262	7.131	9.987	1.00	12.06	C
ANISOU	103	CB LEU A 25	1393	1784	1404	99 36 67		C

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ATOM	104	CG	LEU A 25	29.280	7.969	8.704	1.00	13.35		C
ANISOU	104	CG	LEU A 25	2048	1601	1422	241	12	52	C
ATOM	105	CD1	LEU A 25	29.040	9.424	9.011	1.00	14.35		C
ANISOU	105	CD1	LEU A 25	2013	1541	1898	-61	157	-79	C
ATOM	106	CD2	LEU A 25	30.613	7.724	7.990	1.00	20.25		C
ANISOU	106	CD2	LEU A 25	3257	2473	1966	627	1199	242	C
ATOM	107	N	GLY A 26	28.251	4.351	11.633	1.00	12.27		N
ANISOU	107	N	GLY A 26	1794	1456	1413	328	255	2	N
ATOM	108	CA	GLY A 26	28.361	3.766	12.956	1.00	12.97		C
ANISOU	108	CA	GLY A 26	2157	1275	1495	240	-46	33	C
ATOM	109	C	GLY A 26	27.958	4.690	14.075	1.00	12.16		C
ANISOU	109	C	GLY A 26	1715	1534	1371	496	-159	48	C
ATOM	110	O	GLY A 26	28.183	4.391	15.237	1.00	13.44		O
ANISOU	110	O	GLY A 26	2436	1301	1370	264	265	284	O
ATOM	111	N	SER A 27	27.416	5.876	13.731	1.00	11.98		N
ANISOU	111	N	SER A 27	1322	1739	1488	560	-138	53	N
ATOM	112	CA	SER A 27	26.915	6.795	14.718	1.00	11.09		C
ANISOU	112	CA	SER A 27	1265	1489	1459	462	259	337	C
ATOM	113	C	SER A 27	25.590	6.295	15.318	1.00	11.40		C
ANISOU	113	C	SER A 27	1608	1370	1351	15	203	431	C
ATOM	114	O	SER A 27	24.853	5.573	14.618	1.00	15.23		O
ANISOU	114	O	SER A 27	2000	1309	2477	-55	-127	27	O
ATOM	115	CB	ASER A 27	26.773	8.183	14.103	0.80	10.19		C
ANISOU	115	CB	ASER A 27	1510	1308	1052	-196	-114	248	C
ATOM	116	CB	BSER A 27	26.646	8.179	14.119	0.20	10.48		C
ANISOU	116	CB	BSER A 27	1455	1287	1239	-54	123	281	C
ATOM	117	OG	ASER A 27	28.042	8.667	13.645	0.80	9.63		O
ANISOU	117	OG	ASER A 27	1128	1529	1001	105	-192	-8	O
ATOM	118	OG	BSER A 27	27.608	8.531	13.136	0.20	13.97		O
ANISOU	118	OG	BSER A 27	1942	2345	1021	-588	154	214	O
ATOM	119	N	THR A 28	25.312	6.691	16.538	1.00	13.59		N
ANISOU	119	N	THR A 28	1648	1785	1732	356	619	98	N
ATOM	120	CA	THR A 28	24.167	6.360	17.363	1.00	15.36		C
ANISOU	120	CA	THR A 28	1784	1923	2130	380	846	157	C
ATOM	121	C	THR A 28	23.257	7.568	17.636	1.00	10.93		C
ANISOU	121	C	THR A 28	1173	1600	1380	-133	387	-236	C
ATOM	122	O	THR A 28	23.801	8.555	18.106	1.00	14.66		O
ANISOU	122	O	THR A 28	1451	1770	2350	-133	-494	-204	O
ATOM	123	CB	THR A 28	24.547	5.965	18.824	1.00	20.52		C
ANISOU	123	CB	THR A 28	2484	2485	2828	-299	703	1817	C
ATOM	124	OG1	THR A 28	25.445	4.895	18.779	1.00	19.95		O
ANISOU	124	OG1	THR A 28	2178	3565	1838	52	-158	419	O
ATOM	125	CG2	THR A 28	23.300	5.647	19.670	1.00	22.87		C
ANISOU	125	CG2	THR A 28	2403	3314	2971	-180	837	1564	C
ATOM	126	N	PHE A 29	21.980	7.453	17.398	1.00	10.86		N
ANISOU	126	N	PHE A 29	1175	1777	1175	-307	375	-184	N
ATOM	127	CA	PHE A 29	20.960	8.482	17.616	1.00	14.19		C
ANISOU	127	CA	PHE A 29	1076	2555	1762	-17	338	-258	C
ATOM	128	C	PHE A 29	19.917	7.830	18.511	1.00	14.66		C
ANISOU	128	C	PHE A 29	1731	1681	2160	168	942	-576	C
ATOM	129	O	PHE A 29	19.341	6.786	18.175	1.00	14.63		O
ANISOU	129	O	PHE A 29	1771	1853	1933	-31	739	-478	O
ATOM	130	CB	PHE A 29	20.420	8.823	16.244	1.00	18.51		C
ANISOU	130	CB	PHE A 29	2444	1905	2685	-603	-603	696	C
ATOM	131	CG	PHE A 29	19.205	9.623	15.980	1.00	18.77		C
ANISOU	131	CG	PHE A 29	2684	894	3555	-974	-1510	10	C

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ATOM	132	CD1 PHE A 29	19.011	10.797	16.664	1.00	17.88		C
ANISOU	132	CD1 PHE A 29	1998	2821	1972	-589	-273	-765	C
ATOM	133	CD2 PHE A 29	18.287	9.263	14.994	1.00	19.86		C
ANISOU	133	CD2 PHE A 29	3744	725	3077	-540	-1941	136	C
ATOM	134	CE1 PHE A 29	17.916	11.620	16.437	1.00	18.92		C
ANISOU	134	CE1 PHE A 29	2369	2675	2144	-355	-250	-733	C
ATOM	135	CE2 PHE A 29	17.176	10.008	14.789	1.00	17.88		C
ANISOU	135	CE2 PHE A 29	3315	1683	1798	-416	-1279	297	C
ATOM	136	CZ PHE A 29	17.002	11.220	15.468	1.00	18.61		C
ANISOU	136	CZ PHE A 29	2291	2651	2128	-237	-383	-448	C
ATOM	137	N ILE A 30	19.669	8.399	19.675	1.00	12.57		N
ANISOU	137	N ILE A 30	1404	1811	1563	235	326	-187	N
ATOM	138	CA ILE A 30	18.645	7.945	20.590	1.00	10.65		C
ANISOU	138	CA ILE A 30	1551	1375	1120	17	69	-50	C
ATOM	139	C ILE A 30	17.656	9.085	20.735	1.00	10.39		C
ANISOU	139	C ILE A 30	1391	1424	1132	-17	248	-211	C
ATOM	140	O ILE A 30	18.068	10.203	21.048	1.00	12.85		O
ANISOU	140	O ILE A 30	1522	1492	1869	-10	147	-385	O
ATOM	141	CB ILE A 30	19.277	7.634	21.955	1.00	16.44		C
ANISOU	141	CB ILE A 30	2225	2569	1453	467	-239	145	C
ATOM	142	CG1 ILE A 30	20.298	6.494	21.855	1.00	19.13		C
ANISOU	142	CG1 ILE A 30	1864	2626	2778	426	-716	208	C
ATOM	143	CG2 ILE A 30	18.169	7.399	22.934	1.00	22.81		C
ANISOU	143	CG2 ILE A 30	3312	4024	1331	1128	320	932	C
ATOM	144	CD1 ILE A 30	21.007	6.260	23.177	1.00	24.92		C
ANISOU	144	CD1 ILE A 30	3001	3196	3272	1028	-1681	-672	C
ATOM	145	N VAL A 31	16.400	8.861	20.453	1.00	10.87		N
ANISOU	145	N VAL A 31	1458	1380	1293	-77	200	160	N
ATOM	146	CA VAL A 31	15.423	9.932	20.302	1.00	10.84		C
ANISOU	146	CA VAL A 31	1525	1165	1427	-80	44	-30	C
ATOM	147	C VAL A 31	14.087	9.493	20.899	1.00	10.75		C
ANISOU	147	C VAL A 31	1476	1164	1445	-31	-43	122	C
ATOM	148	O VAL A 31	13.677	8.311	20.915	1.00	12.42		O
ANISOU	148	O VAL A 31	1866	1162	1691	-155	364	-97	O
ATOM	149	CB VAL A 31	15.293	10.318	18.808	1.00	11.50		C
ANISOU	149	CB VAL A 31	1425	1442	1503	-157	7	167	C
ATOM	150	CG1 VAL A 31	14.703	9.162	18.007	1.00	13.90		C
ANISOU	150	CG1 VAL A 31	1860	1817	1603	-106	-269	-86	C
ATOM	151	CG2 VAL A 31	14.493	11.609	18.573	1.00	13.05		C
ANISOU	151	CG2 VAL A 31	1576	1661	1721	-56	46	318	C
ATOM	152	N THR A 32	13.379	10.492	21.411	1.00	11.75		N
ANISOU	152	N THR A 32	1637	1063	1767	-142	295	90	N
ATOM	153	CA THR A 32	12.004	10.348	21.809	1.00	12.81		C
ANISOU	153	CA THR A 32	1804	1594	1468	-12	493	398	C
ATOM	154	C THR A 32	11.186	11.402	21.057	1.00	11.55		C
ANISOU	154	C THR A 32	1524	1424	1439	-187	508	302	C
ATOM	155	O THR A 32	11.558	12.554	21.034	1.00	12.68		O
ANISOU	155	O THR A 32	1698	1420	1701	-225	66	233	O
ATOM	156	CB THR A 32	11.822	10.566	23.312	1.00	16.61		C
ANISOU	156	CB THR A 32	2836	2027	1447	-63	623	618	C
ATOM	157	OG1 THR A 32	12.635	9.581	23.980	1.00	20.34		O
ANISOU	157	OG1 THR A 32	3216	2911	1600	333	51	556	O
ATOM	158	CG2 THR A 32	10.376	10.371	23.749	1.00	19.42		C
ANISOU	158	CG2 THR A 32	2783	3326	1269	98	756	-71	C
ATOM	159	N ALA A 33	10.116	10.908	20.476	1.00	11.76		N
ANISOU	159	N ALA A 33	1560	1290	1618	-163	467	60	N

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ATOM	160	CA	ALA	A	33	9.210	11.738	19.749	1.00	12.30		C
ANISOU	160	CA	ALA	A	33	1470	1558	1647	20	536	85	C
ATOM	161	C	ALA	A	33	8.014	11.998	20.645	1.00	14.21		C
ANISOU	161	C	ALA	A	33	1640	1692	2066	-62	815	83	C
ATOM	162	O	ALA	A	33	7.335	11.060	21.066	1.00	19.14		O
ANISOU	162	O	ALA	A	33	1888	1922	3461	-428	1275	-61	O
ATOM	163	CB	ALA	A	33	8.819	11.012	18.465	1.00	14.19		C
ANISOU	163	CB	ALA	A	33	2357	1503	1530	77	340	269	C
ATOM	164	N	GLY	A	34	7.781	13.249	20.974	1.00	13.22		N
ANISOU	164	N	GLY	A	34	1390	1679	1953	335	596	342	N
ATOM	165	CA	GLY	A	34	6.661	13.636	21.827	1.00	12.41		C
ANISOU	165	CA	GLY	A	34	1368	1734	1615	75	680	446	C
ATOM	166	C	GLY	A	34	5.378	13.878	21.044	1.00	13.28		C
ANISOU	166	C	GLY	A	34	1384	1908	1754	294	710	413	C
ATOM	167	O	GLY	A	34	5.379	14.181	19.847	1.00	13.91		O
ANISOU	167	O	GLY	A	34	1761	1902	1624	-115	322	67	O
ATOM	168	N	ALA	A	35	4.228	13.805	21.677	1.00	14.78		N
ANISOU	168	N	ALA	A	35	1302	2045	2270	7	719	352	N
ATOM	169	CA	ALA	A	35	2.932	14.001	21.083	1.00	15.80		C
ANISOU	169	CA	ALA	A	35	1410	2330	2264	63	624	181	C
ATOM	170	C	ALA	A	35	2.799	15.381	20.447	1.00	14.79		C
ANISOU	170	C	ALA	A	35	1297	2444	1879	1	454	271	C
ATOM	171	O	ALA	A	35	1.996	15.450	19.527	1.00	18.01		O
ANISOU	171	O	ALA	A	35	1396	3157	2290	-85	132	333	O
ATOM	172	CB	ALA	A	35	1.812	13.830	22.102	1.00	21.38		C
ANISOU	172	CB	ALA	A	35	1376	2780	3969	-821	1156	658	C
ATOM	173	N	ASP	A	36	3.543	16.353	20.958	1.00	13.87		N
ANISOU	173	N	ASP	A	36	1498	2384	1389	-2	523	388	N
ATOM	174	CA	ASP	A	36	3.495	17.715	20.462	1.00	15.00		C
ANISOU	174	CA	ASP	A	36	1647	2377	1674	-40	641	374	C
ATOM	175	C	ASP	A	36	4.404	17.993	19.268	1.00	13.87		C
ANISOU	175	C	ASP	A	36	1651	1752	1866	-251	768	120	C
ATOM	176	O	ASP	A	36	4.490	19.145	18.820	1.00	16.85		O
ANISOU	176	O	ASP	A	36	2231	1944	2228	306	899	636	O
ATOM	177	CB	ASP	A	36	3.874	18.662	21.594	1.00	15.98		C
ANISOU	177	CB	ASP	A	36	1819	2455	1798	-187	876	213	C
ATOM	178	CG	ASP	A	36	5.280	18.441	22.120	1.00	16.27		C
ANISOU	178	CG	ASP	A	36	2020	2261	1903	-241	579	-20	C
ATOM	179	OD1	ASP	A	36	5.889	17.394	21.771	1.00	15.99		O
ANISOU	179	OD1	ASP	A	36	2122	2318	1636	-3	522	237	O
ATOM	180	OD2	ASP	A	36	5.703	19.352	22.893	1.00	22.56		O
ANISOU	180	OD2	ASP	A	36	2192	3299	3079	-603	773	-1084	O
ATOM	181	N	GLY	A	37	5.064	16.986	18.707	1.00	11.53		N
ANISOU	181	N	GLY	A	37	1479	1639	1262	-364	238	50	N
ATOM	182	CA	GLY	A	37	5.997	17.150	17.602	1.00	10.76		C
ANISOU	182	CA	GLY	A	37	1259	1691	1140	-273	149	29	C
ATOM	183	C	GLY	A	37	7.434	17.337	17.999	1.00	8.79		C
ANISOU	183	C	GLY	A	37	1283	1040	1016	-15	101	-169	C
ATOM	184	O	GLY	A	37	8.313	17.558	17.165	1.00	10.93		O
ANISOU	184	O	GLY	A	37	1207	1852	1093	-80	130	23	O
ATOM	185	N	ALA	A	38	7.725	17.237	19.292	1.00	10.27		N
ANISOU	185	N	ALA	A	38	1340	1460	1101	180	150	180	N
ATOM	186	CA	ALA	A	38	9.100	17.401	19.752	1.00	9.66		C
ANISOU	186	CA	ALA	A	38	1262	1625	785	183	203	168	C
ATOM	187	C	ALA	A	38	9.949	16.179	19.471	1.00	10.15		C
ANISOU	187	C	ALA	A	38	1186	1540	1131	43	379	-7	C

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ATOM	188	O	ALA	A	38	9.445	15.043	19.553	1.00	12.25		O
ANISOU	188	O	ALA	A	38	1117	1619	1919	-15	358	75	O
ATOM	189	CB	ALA	A	38	9.087	17.698	21.263	1.00	12.89		C
ANISOU	189	CB	ALA	A	38	1631	2226	1040	-213	404	-438	C
ATOM	190	N	LEU	A	39	11.230	16.359	19.164	1.00	9.52		N
ANISOU	190	N	LEU	A	39	1170	1353	1096	95	229	312	N
ATOM	191	CA	LEU	A	39	12.229	15.323	19.173	1.00	9.95		C
ANISOU	191	CA	LEU	A	39	1228	1367	1187	164	28	-95	C
ATOM	192	C	LEU	A	39	13.268	15.721	20.217	1.00	9.42		C
ANISOU	192	C	LEU	A	39	1089	1437	1054	-119	151	140	C
ATOM	193	O	LEU	A	39	13.703	16.866	20.201	1.00	10.88		O
ANISOU	193	O	LEU	A	39	1569	1424	1141	-195	100	153	O
ATOM	194	CB	LEU	A	39	12.981	15.178	17.857	1.00	10.15		C
ANISOU	194	CB	LEU	A	39	1375	1264	1216	68	52	-219	C
ATOM	195	CG	LEU	A	39	12.094	14.815	16.655	1.00	10.20		C
ANISOU	195	CG	LEU	A	39	1522	1138	1216	78	-19	-176	C
ATOM	196	CD1	LEU	A	39	12.979	14.788	15.428	1.00	10.79		C
ANISOU	196	CD1	LEU	A	39	1425	1590	1083	154	-123	44	C
ATOM	197	CD2	LEU	A	39	11.372	13.485	16.870	1.00	10.81		C
ANISOU	197	CD2	LEU	A	39	1776	1205	1124	-42	-11	-237	C
ATOM	198	N	THR	A	40	13.617	14.829	21.096	1.00	10.26		N
ANISOU	198	N	THR	A	40	1242	1475	1181	-8	95	206	N
ATOM	199	CA	THR	A	40	14.632	15.021	22.117	1.00	9.90		C
ANISOU	199	CA	THR	A	40	1277	1302	1183	-88	90	166	C
ATOM	200	C	THR	A	40	15.483	13.772	22.249	1.00	10.01		C
ANISOU	200	C	THR	A	40	1492	1280	1031	39	-106	-121	C
ATOM	201	O	THR	A	40	15.002	12.660	22.154	1.00	14.65		O
ANISOU	201	O	THR	A	40	1744	1326	2496	-55	-415	-218	O
ATOM	202	CB	THR	A	40	14.017	15.312	23.513	1.00	11.70		C
ANISOU	202	CB	THR	A	40	1580	1495	1369	9	86	-331	C
ATOM	203	OG1	ATHR	A	40	13.303	14.184	23.994	0.50	15.92		O
ANISOU	203	OG1	ATHR	A	40	2006	2845	1199	-862	317	37	O
ATOM	204	OG1	BTHR	A	40	13.077	16.359	23.328	0.50	17.12		O
ANISOU	204	OG1	BTHR	A	40	2567	1706	2229	614	785	261	O
ATOM	205	CG2	ATHR	A	40	13.046	16.467	23.418	0.50	21.88		C
ANISOU	205	CG2	ATHR	A	40	2138	2913	3263	1124	370	-430	C
ATOM	206	CG2	BTHR	A	40	15.056	15.760	24.510	0.50	14.92		C
ANISOU	206	CG2	BTHR	A	40	1761	1940	1968	-601	401	-1396	C
ATOM	207	N	GLY	A	41	16.760	13.907	22.494	1.00	10.43		N
ANISOU	207	N	GLY	A	41	1463	1191	1309	34	31	-16	N
ATOM	208	CA	GLY	A	41	17.609	12.746	22.686	1.00	11.15		C
ANISOU	208	CA	GLY	A	41	1395	1187	1656	110	280	-312	C
ATOM	209	C	GLY	A	41	19.093	13.113	22.683	1.00	10.10		C
ANISOU	209	C	GLY	A	41	1397	1280	1159	75	430	226	C
ATOM	210	O	GLY	A	41	19.483	14.209	23.049	1.00	9.69		O
ANISOU	210	O	GLY	A	41	1252	1246	1183	57	187	256	O
ATOM	211	N	THR	A	42	19.877	12.113	22.276	1.00	9.88		N
ANISOU	211	N	THR	A	42	1299	1477	979	71	103	-113	N
ATOM	212	CA	THR	A	42	21.318	12.242	22.245	1.00	9.09		C
ANISOU	212	CA	THR	A	42	1300	1181	971	89	168	153	C
ATOM	213	C	THR	A	42	21.871	11.590	20.986	1.00	9.21		C
ANISOU	213	C	THR	A	42	1204	1242	1053	184	75	30	C
ATOM	214	O	THR	A	42	21.316	10.651	20.455	1.00	11.22		O
ANISOU	214	O	THR	A	42	1572	1589	1101	-127	130	-107	O
ATOM	215	CB	THR	A	42	22.036	11.617	23.455	1.00	11.53		C
ANISOU	215	CB	THR	A	42	1600	1704	1075	243	-74	136	C

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ATOM	216	OG1 THR A 42	21.783	10.216	23.502	1.00	14.46	O
ANISOU	216	OG1 THR A 42	2266	1663	1564	300	-431 560	O
ATOM	217	CG2 THR A 42	21.511	12.236	24.745	1.00	14.68	C
ANISOU	217	CG2 THR A 42	1828	2728	1023	646	-291 -85	C
ATOM	218	N TYR A 43	22.993	12.153	20.582	1.00	9.36	N
ANISOU	218	N TYR A 43	1425	1310	822	28	119 -24	N
ATOM	219	CA TYR A 43	23.675	11.721	19.384	1.00	9.29	C
ANISOU	219	CA TYR A 43	1323	1411	794	238	76 28	C
ATOM	220	C TYR A 43	25.127	11.419	19.714	1.00	10.52	C
ANISOU	220	C TYR A 43	1404	1470	1122	292	-75 -188	C
ATOM	221	O TYR A 43	25.735	12.224	20.432	1.00	11.47	O
ANISOU	221	O TYR A 43	1508	1528	1322	227	-121 -260	O
ATOM	222	CB TYR A 43	23.630	12.812	18.306	1.00	10.18	C
ANISOU	222	CB TYR A 43	1708	1410	749	259	59 -38	C
ATOM	223	CG TYR A 43	23.859	12.309	16.905	1.00	8.08	C
ANISOU	223	CG TYR A 43	1267	1027	777	97	111 -4	C
ATOM	224	CD1 TYR A 43	25.143	12.101	16.421	1.00	9.23	C
ANISOU	224	CD1 TYR A 43	1307	1417	784	168	103 213	C
ATOM	225	CD2 TYR A 43	22.800	12.000	16.074	1.00	9.89	C
ANISOU	225	CD2 TYR A 43	1380	1467	910	317	-102 -84	C
ATOM	226	CE1 TYR A 43	25.358	11.624	15.159	1.00	9.08	C
ANISOU	226	CE1 TYR A 43	1279	1396	776	388	91 198	C
ATOM	227	CE2 TYR A 43	23.021	11.517	14.793	1.00	9.13	C
ANISOU	227	CE2 TYR A 43	1343	1290	838	-144	58 43	C
ATOM	228	CZ TYR A 43	24.291	11.350	14.344	1.00	8.46	C
ANISOU	228	CZ TYR A 43	1378	940	897	118	47 207	C
ATOM	229	OH TYR A 43	24.432	10.857	13.084	1.00	9.81	O
ANISOU	229	OH TYR A 43	1304	1401	1023	224	-33 -18	O
ATOM	230	N GLU A 44	25.626	10.315	19.176	1.00	10.43	N
ANISOU	230	N GLU A 44	1316	1338	1307	116	381 -139	N
ATOM	231	CA GLU A 44	27.056	9.989	19.359	1.00	11.22	C
ANISOU	231	CA GLU A 44	1367	1367	1530	150	563 198	C
ATOM	232	C GLU A 44	27.635	9.755	17.977	1.00	10.73	C
ANISOU	232	C GLU A 44	1183	1358	1536	113	445 92	C
ATOM	233	O GLU A 44	27.153	8.850	17.289	1.00	12.51	O
ANISOU	233	O GLU A 44	1700	1407	1647	-64	402 80	O
ATOM	234	CB GLU A 44	27.211	8.758	20.230	1.00	14.05	C
ANISOU	234	CB GLU A 44	1917	1692	1731	111	109 473	C
ATOM	235	CG GLU A 44	28.656	8.414	20.489	1.00	19.79	C
ANISOU	235	CG GLU A 44	2165	3335	2019	1049	435 866	C
ATOM	236	CD GLU A 44	28.864	7.686	21.795	1.00	26.89	C
ANISOU	236	CD GLU A 44	2718	4909	2592	99	-561 1760	C
ATOM	237	OE1 GLU A 44	30.033	7.401	22.128	1.00	33.78	O
ANISOU	237	OE1 GLU A 44	3353	5457	4023	1589	-436 2157	O
ATOM	238	OE2 GLU A 44	27.897	7.373	22.511	1.00	30.91	O
ANISOU	238	OE2 GLU A 44	3766	4888	3093	1339	619 2513	O
ATOM	239	N SER A 45	28.611	10.532	17.583	1.00	10.60	N
ANISOU	239	N SER A 45	1561	1305	1163	-26	363 271	N
ATOM	240	CA SER A 45	29.169	10.438	16.246	1.00	9.92	C
ANISOU	240	CA SER A 45	1283	1442	1045	96	119 323	C
ATOM	241	C SER A 45	30.387	9.523	16.249	1.00	9.78	C
ANISOU	241	C SER A 45	1165	1494	1057	26	9 122	C
ATOM	242	O SER A 45	31.254	9.668	17.132	1.00	11.68	O
ANISOU	242	O SER A 45	1607	1551	1279	39	-404 107	O
ATOM	243	CB ASER A 45	29.580	11.797	15.669	0.80	11.59	C
ANISOU	243	CB ASER A 45	1670	1528	1205	145	569 374	C

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ATOM	244	CB	BSER	A	45	29.532	11.866	15.831	0.20	10.80		C
ATOM	245	OG	ASER	A	45	30.201	11.597	14.386	0.80	10.11		O
ANISOU	245	OG	ASER	A	45	1541	1313	987	504	271	292	O
ATOM	246	OG	BSER	A	45	29.819	12.029	14.461	0.20	15.23		O
ATOM	247	N	ALA	A	46	30.405	8.657	15.252	1.00	10.06		N
ANISOU	247	N	ALA	A	46	1206	1581	1034	107	-173	91	N
ATOM	248	CA	ALA	A	46	31.542	7.766	15.057	1.00	11.80		C
ANISOU	248	CA	ALA	A	46	1533	1497	1453	206	129	76	C
ATOM	249	C	ALA	A	46	32.753	8.459	14.449	1.00	11.80		C
ANISOU	249	C	ALA	A	46	1337	1727	1420	340	4	321	C
ATOM	250	O	ALA	A	46	33.850	7.912	14.437	1.00	13.35		O
ANISOU	250	O	ALA	A	46	1440	1955	1679	500	-12	249	O
ATOM	251	CB	ALA	A	46	31.168	6.649	14.102	1.00	15.06		C
ANISOU	251	CB	ALA	A	46	1651	1915	2156	231	37	-458	C
ATOM	252	N	VAL	A	47	32.567	9.644	13.904	1.00	11.10		N
ANISOU	252	N	VAL	A	47	1382	1696	1141	228	-185	302	N
ATOM	253	CA	VAL	A	47	33.594	10.381	13.183	1.00	11.44		C
ANISOU	253	CA	VAL	A	47	1476	1765	1108	136	13	80	C
ATOM	254	C	VAL	A	47	33.612	11.836	13.610	1.00	10.92		C
ANISOU	254	C	VAL	A	47	1238	1824	1089	115	50	4	C
ATOM	255	O	VAL	A	47	32.697	12.383	14.221	1.00	11.53		O
ANISOU	255	O	VAL	A	47	1492	1918	972	396	107	209	O
ATOM	256	CB	VAL	A	47	33.383	10.317	11.644	1.00	10.43		C
ANISOU	256	CB	VAL	A	47	1223	1595	1145	365	12	29	C
ATOM	257	CG1	VAL	A	47	33.435	8.852	11.197	1.00	12.88		C
ANISOU	257	CG1	VAL	A	47	1854	1553	1485	186	64	-33	C
ATOM	258	CG2	VAL	A	47	32.087	10.967	11.219	1.00	11.33		C
ANISOU	258	CG2	VAL	A	47	1071	1625	1611	64	-15	544	C
ATOM	259	N	GLY	A	48	34.677	12.530	13.239	1.00	12.21		N
ANISOU	259	N	GLY	A	48	1084	1838	1718	133	-96	-137	N
ATOM	260	CA	GLY	A	48	34.780	13.955	13.448	1.00	11.41		C
ANISOU	260	CA	GLY	A	48	1383	1826	1125	84	227	-99	C
ATOM	261	C	GLY	A	48	35.269	14.324	14.823	1.00	10.07		C
ANISOU	261	C	GLY	A	48	1115	1520	1190	25	109	205	C
ATOM	262	O	GLY	A	48	35.814	13.534	15.579	1.00	13.35		O
ANISOU	262	O	GLY	A	48	1592	2157	1322	520	201	415	O
ATOM	263	N	ASN	A	49	35.077	15.603	15.103	1.00	12.59		N
ANISOU	263	N	ASN	A	49	1769	1626	1387	124	66	-131	N
ATOM	264	CA	ASN	A	49	35.632	16.214	16.319	1.00	12.22		C
ANISOU	264	CA	ASN	A	49	1329	1924	1389	-76	145	-85	C
ATOM	265	C	ASN	A	49	34.584	16.085	17.415	1.00	11.49		C
ANISOU	265	C	ASN	A	49	1387	1673	1304	370	137	142	C
ATOM	266	O	ASN	A	49	33.891	17.016	17.778	1.00	14.51		O
ANISOU	266	O	ASN	A	49	1933	1976	1603	722	302	162	O
ATOM	267	CB	ASN	A	49	35.995	17.657	16.049	1.00	15.22		C
ANISOU	267	CB	ASN	A	49	1612	2150	2021	-637	-21	-92	C
ATOM	268	CG	ASN	A	49	36.779	18.325	17.147	1.00	14.78		C
ANISOU	268	CG	ASN	A	49	1780	1991	1843	-83	-185	-228	C
ATOM	269	OD1	ASN	A	49	37.078	17.689	18.144	1.00	19.58		O
ANISOU	269	OD1	ASN	A	49	1967	3373	2098	80	-204	365	O
ATOM	270	ND2	ASN	A	49	37.071	19.602	16.935	1.00	19.74		N
ANISOU	270	ND2	ASN	A	49	2950	1679	2870	18	-647	-690	N
ATOM	271	N	ALA	A	50	34.460	14.861	17.880	1.00	11.51		N
ANISOU	271	N	ALA	A	50	1303	1694	1376	106	-7	126	N
ATOM	272	CA	ALA	A	50	33.339	14.479	18.706	1.00	11.87		C
ANISOU	272	CA	ALA	A	50	1343	1870	1296	192	58	157	C

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ATOM	273	C	ALA	A	50	33.728	13.300	19.561	1.00	13.18	C	
ANISOU	273	C	ALA	A	50	1425	2070	1512	443	363	359	C
ATOM	274	O	ALA	A	50	34.431	12.398	19.112	1.00	14.18	O	
ANISOU	274	O	ALA	A	50	1634	2110	1645	531	17	106	O
ATOM	275	CB	ALA	A	50	32.159	14.126	17.787	1.00	15.49	C	
ANISOU	275	CB	ALA	A	50	1166	2846	1873	178	-91	58	C
ATOM	276	N	GLU	A	51	33.247	13.279	20.795	1.00	12.62	N	
ANISOU	276	N	GLU	A	51	1673	2119	1005	145	-273	81	N
ATOM	277	CA	GLU	A	51	33.356	12.096	21.656	1.00	13.25	C	
ANISOU	277	CA	GLU	A	51	1205	2421	1408	-64	-413	488	C
ATOM	278	C	GLU	A	51	32.133	12.100	22.585	1.00	13.32	C	
ANISOU	278	C	GLU	A	51	1203	2255	1601	181	-364	548	C
ATOM	279	O	GLU	A	51	31.629	13.160	22.956	1.00	15.02	O	
ANISOU	279	O	GLU	A	51	1817	2272	1617	431	-127	781	O
ATOM	280	CB	GLU	A	51	34.640	12.090	22.454	1.00	15.49	C	
ANISOU	280	CB	GLU	A	51	1191	3053	1641	254	-505	174	C
ATOM	281	CG	GLU	A	51	34.736	13.125	23.568	1.00	23.57	C	
ANISOU	281	CG	GLU	A	51	2061	4280	2614	-334	-755	-838	C
ATOM	282	CD	GLU	A	51	36.099	13.204	24.216	1.00	24.52	C	
ANISOU	282	CD	GLU	A	51	2660	4439	2217	-1397	-1232	751	C
ATOM	283	OE1	GLU	A	51	36.310	12.606	25.292	1.00	26.32	O	
ANISOU	283	OE1	GLU	A	51	3156	4759	2084	282	-250	827	O
ATOM	284	OE2	GLU	A	51	37.002	13.869	23.671	1.00	32.33	O	
ANISOU	284	OE2	GLU	A	51	2730	5428	4125	-1583	-1468	2244	O
ATOM	285	N	ASER	A	52	31.682	10.920	22.982	0.50	15.16	N	
ANISOU	285	N	ASER	A	52	1630	2242	1890	434	269	714	N
ATOM	286	N	BSER	A	52	31.676	10.916	22.942	0.50	14.01	N	
ATOM	287	CA	ASER	A	52	30.582	10.773	23.921	0.50	15.32	C	
ANISOU	287	CA	ASER	A	52	1754	2223	1844	802	377	870	C
ATOM	288	CA	BSER	A	52	30.554	10.721	23.835	0.50	14.35	C	
ATOM	289	C	ASER	A	52	29.270	11.133	23.221	0.50	13.81	C	
ANISOU	289	C	ASER	A	52	1624	2053	1569	220	268	888	C
ATOM	290	C	BSER	A	52	29.293	11.305	23.200	0.50	14.52	C	
ATOM	291	O	ASER	A	52	29.188	11.088	21.991	0.50	17.16	O	
ANISOU	291	O	ASER	A	52	1971	3033	1518	-113	336	853	O
ATOM	292	O	BSER	A	52	29.266	11.568	21.999	0.50	12.89	O	
ATOM	293	CB	ASER	A	52	30.815	11.638	25.157	0.50	16.40	C	
ANISOU	293	CB	ASER	A	52	1592	3102	1537	-102	324	968	C
ATOM	294	CB	BSER	A	52	30.829	11.341	25.200	0.50	18.41	C	
ATOM	295	OG	ASER	A	52	29.973	11.276	26.241	0.50	17.85	O	
ANISOU	295	OG	ASER	A	52	893	4382	1507	116	140	1147	O
ATOM	296	OG	BSER	A	52	30.020	10.731	26.189	0.50	23.14	O	
ATOM	297	N	ARG	A	53	28.282	11.460	24.033	1.00	11.96	N	
ANISOU	297	N	ARG	A	53	1518	1606	1419	343	-142	360	N
ATOM	298	CA	ARG	A	53	26.954	11.868	23.635	1.00	11.61	C	
ANISOU	298	CA	ARG	A	53	1490	1491	1432	171	-340	281	C
ATOM	299	C	ARG	A	53	26.749	13.375	23.644	1.00	9.71	C	
ANISOU	299	C	ARG	A	53	1190	1431	1067	121	30	258	C
ATOM	300	O	ARG	A	53	27.262	14.079	24.530	1.00	12.28	O	
ANISOU	300	O	ARG	A	53	1692	1680	1295	-20	-194	146	O
ATOM	301	CB	ARG	A	53	25.892	11.283	24.597	1.00	16.73	C	
ANISOU	301	CB	ARG	A	53	1411	2221	2726	-473	-583	1266	C
ATOM	302	CG	ARG	A	53	25.802	9.786	24.453	1.00	18.74	C	
ANISOU	302	CG	ARG	A	53	2132	2378	2611	-621	-223	707	C
ATOM	303	CD	ARG	A	53	24.770	9.222	25.411	1.00	24.90	C	
ANISOU	303	CD	ARG	A	53	3720	3270	2472	-1940	-286	1196	C

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ATOM	304	NE	ARG	A	53	24.721	7.773	25.222	1.00	33.47		N
ANISOU	304	NE	ARG	A	53	6646	3496	2575	-2771	445	437	N
ATOM	305	CZ	ARG	A	53	23.921	6.925	25.845	1.00	43.32		C
ANISOU	305	CZ	ARG	A	53	8851	3669	3941	-3577	1633	197	C
ATOM	306	NH1	ARG	A	53	23.964	5.619	25.592	1.00	53.64		N
ANISOU	306	NH1	ARG	A	53	12829	3500	4051	-4244	-1216	372	N
ATOM	307	NH2	ARG	A	53	23.034	7.332	26.757	1.00	65.43		N
ANISOU	307	NH2	ARG	A	53	10607	7737	6518	-3393	4344	576	N
ATOM	308	N	TYR	A	54	25.974	13.856	22.686	1.00	9.97		N
ANISOU	308	N	TYR	A	54	1411	1437	940	454	45	10	N
ATOM	309	CA	TYR	A	54	25.584	15.253	22.572	1.00	8.40		C
ANISOU	309	CA	TYR	A	54	1193	1316	682	226	15	-119	C
ATOM	310	C	TYR	A	54	24.067	15.406	22.588	1.00	9.15		C
ANISOU	310	C	TYR	A	54	1190	1103	1184	174	-36	-9	C
ATOM	311	O	TYR	A	54	23.378	14.521	22.071	1.00	11.03		O
ANISOU	311	O	TYR	A	54	1238	1319	1636	29	58	-246	O
ATOM	312	CB	TYR	A	54	26.111	15.884	21.276	1.00	8.78		C
ANISOU	312	CB	TYR	A	54	1298	1537	502	105	-141	-98	C
ATOM	313	CG	TYR	A	54	27.618	15.881	21.237	1.00	8.93		C
ANISOU	313	CG	TYR	A	54	1301	1485	605	35	-112	169	C
ATOM	314	CD1	TYR	A	54	28.348	14.758	20.929	1.00	10.01		C
ANISOU	314	CD1	TYR	A	54	1276	1682	845	134	-141	20	C
ATOM	315	CD2	TYR	A	54	28.348	17.035	21.523	1.00	9.94		C
ANISOU	315	CD2	TYR	A	54	1351	1600	827	-86	3	150	C
ATOM	316	CE1	TYR	A	54	29.735	14.740	20.889	1.00	10.03		C
ANISOU	316	CE1	TYR	A	54	1287	1719	806	77	-81	204	C
ATOM	317	CE2	TYR	A	54	29.748	17.039	21.490	1.00	10.31		C
ANISOU	317	CE2	TYR	A	54	1320	1714	884	-59	-99	174	C
ATOM	318	CZ	TYR	A	54	30.436	15.892	21.171	1.00	10.69		C
ANISOU	318	CZ	TYR	A	54	1310	1771	980	-44	67	276	C
ATOM	319	OH	TYR	A	54	31.801	15.886	21.148	1.00	11.54		O
ANISOU	319	OH	TYR	A	54	1268	2237	878	31	-120	16	O
ATOM	320	N	VAL	A	55	23.599	16.498	23.170	1.00	9.59		N
ANISOU	320	N	VAL	A	55	1211	1237	1196	214	185	-58	N
ATOM	321	CA	VAL	A	55	22.154	16.737	23.142	1.00	8.80		C
ANISOU	321	CA	VAL	A	55	1200	1056	1088	154	125	163	C
ATOM	322	C	VAL	A	55	21.710	16.970	21.722	1.00	9.28		C
ANISOU	322	C	VAL	A	55	1260	1325	942	-7	239	68	C
ATOM	323	O	VAL	A	55	22.346	17.670	20.957	1.00	10.63		O
ANISOU	323	O	VAL	A	55	1255	1854	928	-179	149	98	O
ATOM	324	CB	VAL	A	55	21.851	17.970	23.996	1.00	10.19		C
ANISOU	324	CB	VAL	A	55	1362	1481	1030	364	212	-35	C
ATOM	325	CG1	VAL	A	55	20.398	18.432	23.853	1.00	11.79		C
ANISOU	325	CG1	VAL	A	55	1253	1612	1614	286	371	-72	C
ATOM	326	CG2	VAL	A	55	22.184	17.698	25.444	1.00	12.04		C
ANISOU	326	CG2	VAL	A	55	1753	1799	1020	208	378	61	C
ATOM	327	N	LEU	A	56	20.549	16.414	21.409	1.00	9.89		N
ANISOU	327	N	LEU	A	56	1367	1260	1130	-4	11	392	N
ATOM	328	CA	LEU	A	56	19.848	16.856	20.233	1.00	12.25		C
ANISOU	328	CA	LEU	A	56	1492	2176	985	338	31	246	C
ATOM	329	C	LEU	A	56	18.417	17.293	20.554	1.00	11.02		C
ANISOU	329	C	LEU	A	56	1466	1709	1012	219	67	257	C
ATOM	330	O	LEU	A	56	17.781	16.779	21.446	1.00	12.49		O
ANISOU	330	O	LEU	A	56	1502	2158	1084	14	-15	578	O
ATOM	331	CB	LEU	A	56	19.788	15.753	19.213	1.00	11.60		C
ANISOU	331	CB	LEU	A	56	1076	2069	1263	303	38	105	C

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ATOM	332	CG	LEU	A	56	18.907	14.547	19.412	1.00	12.82		C
ANISOU	332	CG	LEU	A	56	1297	2359	1217	30	118	431	C
ATOM	333	CD1	LEU	A	56	17.498	14.701	18.778	1.00	11.81		C
ANISOU	333	CD1	LEU	A	56	1556	1465	1466	12	-273	459	C
ATOM	334	CD2	LEU	A	56	19.526	13.281	18.799	1.00	18.27		C
ANISOU	334	CD2	LEU	A	56	1806	1699	3438	306	364	837	C
ATOM	335	N	THR	A	57	17.973	18.210	19.683	1.00	10.10		N
ANISOU	335	N	THR	A	57	1184	1624	1029	-191	-174	323	N
ATOM	336	CA	THR	A	57	16.575	18.592	19.735	1.00	9.86		C
ANISOU	336	CA	THR	A	57	1383	1364	999	-34	-108	216	C
ATOM	337	C	THR	A	57	16.090	18.812	18.320	1.00	8.07		C
ANISOU	337	C	THR	A	57	1024	1136	907	143	89	75	C
ATOM	338	O	THR	A	57	16.856	19.187	17.438	1.00	9.71		O
ANISOU	338	O	THR	A	57	1160	1545	984	150	184	208	O
ATOM	339	CB	THR	A	57	16.369	19.833	20.587	1.00	12.85		C
ANISOU	339	CB	THR	A	57	2158	1695	1031	252	-397	-83	C
ATOM	340	OG1	THR	A	57	14.966	20.065	20.731	1.00	16.31		O
ANISOU	340	OG1	THR	A	57	2374	2093	1731	724	-25	91	O
ATOM	341	CG2	THR	A	57	16.931	21.083	19.957	1.00	12.89		C
ANISOU	341	CG2	THR	A	57	2579	1320	999	540	-202	-211	C
ATOM	342	N	GLY	A	58	14.802	18.571	18.109	1.00	9.84		N
ANISOU	342	N	GLY	A	58	1098	1486	1153	-2	-9	175	N
ATOM	343	CA	GLY	A	58	14.237	18.776	16.774	1.00	9.66		C
ANISOU	343	CA	GLY	A	58	1079	1437	1154	-24	-59	166	C
ATOM	344	C	GLY	A	58	12.725	18.743	16.830	1.00	10.31		C
ANISOU	344	C	GLY	A	58	1116	1609	1192	-370	-69	-225	C
ATOM	345	O	GLY	A	58	12.091	18.824	17.896	1.00	9.77		O
ANISOU	345	O	GLY	A	58	1111	1309	1291	36	45	-11	O
ATOM	346	N	ARG	A	59	12.145	18.575	15.635	1.00	9.37		N
ANISOU	346	N	ARG	A	59	1072	1277	1210	-310	-78	-33	N
ATOM	347	CA	ARG	A	59	10.721	18.568	15.436	1.00	7.97		C
ANISOU	347	CA	ARG	A	59	992	1310	725	-149	170	50	C
ATOM	348	C	ARG	A	59	10.403	17.561	14.324	1.00	8.44		C
ANISOU	348	C	ARG	A	59	649	1787	773	146	-65	-211	C
ATOM	349	O	ARG	A	59	11.211	17.298	13.417	1.00	10.76		O
ANISOU	349	O	ARG	A	59	1262	1847	978	65	353	-254	O
ATOM	350	CB	ARG	A	59	10.192	19.930	15.034	1.00	10.21		C
ANISOU	350	CB	ARG	A	59	1411	1402	1068	-114	46	261	C
ATOM	351	CG	ARG	A	59	10.561	21.082	15.977	1.00	9.95		C
ANISOU	351	CG	ARG	A	59	1043	1186	1549	-182	-35	258	C
ATOM	352	CD	ARG	A	59	9.693	21.041	17.260	1.00	9.87		C
ANISOU	352	CD	ARG	A	59	1248	1034	1469	-52	-24	-74	C
ATOM	353	NE	ARG	A	59	8.290	21.224	16.915	1.00	9.73		N
ANISOU	353	NE	ARG	A	59	1177	1527	993	-242	24	-113	N
ATOM	354	CZ	ARG	A	59	7.268	21.015	17.717	1.00	10.82		C
ANISOU	354	CZ	ARG	A	59	1385	1374	1352	23	284	339	C
ATOM	355	NH1	ARG	A	59	7.529	20.615	18.946	1.00	12.93		N
ANISOU	355	NH1	ARG	A	59	1750	2025	1137	-54	261	194	N
ATOM	356	NH2	ARG	A	59	6.024	21.198	17.309	1.00	12.61		N
ANISOU	356	NH2	ARG	A	59	1280	1979	1530	113	386	256	N
ATOM	357	N	TYR	A	60	9.181	17.047	14.409	1.00	9.69		N
ANISOU	357	N	TYR	A	60	854	1640	1186	-6	6	-205	N
ATOM	358	CA	TYR	A	60	8.645	16.161	13.389	1.00	10.00		C
ANISOU	358	CA	TYR	A	60	963	1738	1099	-213	149	-233	C
ATOM	359	C	TYR	A	60	7.169	16.475	13.162	1.00	10.97		C
ANISOU	359	C	TYR	A	60	892	1613	1664	-404	95	-426	C

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ATOM	360	O	TYR	A	60	6.489	17.042	14.033	1.00	11.51		O
ANISOU	360	O	TYR	A	60	1083	1720	1570	-77	222	-97	O
ATOM	361	CB	TYR	A	60	8.882	14.670	13.724	1.00	10.71		C
ANISOU	361	CB	TYR	A	60	1242	1726	1102	-238	129	-306	C
ATOM	362	CG	TYR	A	60	7.934	14.148	14.786	1.00	10.47		C
ANISOU	362	CG	TYR	A	60	1188	1637	1154	-67	89	-141	C
ATOM	363	CD1	TYR	A	60	8.105	14.461	16.127	1.00	10.59		C
ANISOU	363	CD1	TYR	A	60	1374	1627	1023	34	10	185	C
ATOM	364	CD2	TYR	A	60	6.856	13.349	14.464	1.00	10.64		C
ANISOU	364	CD2	TYR	A	60	1432	1257	1352	-106	145	-21	C
ATOM	365	CE1	TYR	A	60	7.248	13.998	17.086	1.00	13.19		C
ANISOU	365	CE1	TYR	A	60	1433	2303	1274	-169	174	300	C
ATOM	366	CE2	TYR	A	60	6.014	12.891	15.406	1.00	13.32		C
ANISOU	366	CE2	TYR	A	60	2050	1345	1665	-443	490	-96	C
ATOM	367	CZ	TYR	A	60	6.191	13.196	16.723	1.00	13.10		C
ANISOU	367	CZ	TYR	A	60	1464	1973	1539	-52	385	-17	C
ATOM	368	OH	TYR	A	60	5.275	12.687	17.642	1.00	14.96		O
ANISOU	368	OH	TYR	A	60	1849	2093	1741	-356	607	-118	O
ATOM	369	N	ASP	A	61	6.664	16.128	11.979	1.00	11.01		N
ANISOU	369	N	ASP	A	61	971	1798	1413	-183	1	-25	N
ATOM	370	CA	ASP	A	61	5.244	16.198	11.678	1.00	11.13		C
ANISOU	370	CA	ASP	A	61	1002	1959	1268	-72	4	280	C
ATOM	371	C	ASP	A	61	4.496	15.133	12.453	1.00	11.39		C
ANISOU	371	C	ASP	A	61	1160	1979	1190	-321	260	-151	C
ATOM	372	O	ASP	A	61	4.559	13.951	12.186	1.00	11.80		O
ANISOU	372	O	ASP	A	61	1410	1926	1148	-458	19	-294	O
ATOM	373	CB	ASP	A	61	5.048	15.963	10.192	1.00	11.57		C
ANISOU	373	CB	ASP	A	61	1081	2024	1292	-134	33	198	C
ATOM	374	CG	ASP	A	61	3.587	15.987	9.780	1.00	12.25		C
ANISOU	374	CG	ASP	A	61	1139	2030	1486	355	-94	-717	C
ATOM	375	OD1	ASP	A	61	2.687	16.256	10.594	1.00	12.48		O
ANISOU	375	OD1	ASP	A	61	1321	1853	1570	556	200	52	O
ATOM	376	OD2	ASP	A	61	3.396	15.738	8.573	1.00	13.39		O
ANISOU	376	OD2	ASP	A	61	1470	2237	1381	-302	-103	-334	O
ATOM	377	N	SER	A	62	3.767	15.553	13.469	1.00	12.07		N
ANISOU	377	N	SER	A	62	1386	2002	1200	76	312	128	N
ATOM	378	CA	SER	A	62	3.011	14.690	14.369	1.00	12.17		C
ANISOU	378	CA	SER	A	62	1270	2121	1233	-13	362	67	C
ATOM	379	C	SER	A	62	1.634	14.300	13.863	1.00	14.65		C
ANISOU	379	C	SER	A	62	1121	2528	1916	126	226	510	C
ATOM	380	O	SER	A	62	0.968	13.569	14.575	1.00	18.19		O
ANISOU	380	O	SER	A	62	1620	3176	2116	-675	223	415	O
ATOM	381	CB	SER	A	62	2.842	15.344	15.739	1.00	14.85		C
ANISOU	381	CB	SER	A	62	1900	2431	1310	619	652	17	C
ATOM	382	OG	SER	A	62	2.273	16.632	15.703	1.00	20.64		O
ANISOU	382	OG	SER	A	62	3202	2220	2419	717	718	-43	O
ATOM	383	N	ALA	A	63	1.245	14.755	12.670	1.00	14.83		N
ANISOU	383	N	ALA	A	63	1489	2094	2054	180	-176	232	N
ATOM	384	CA	ALA	A	63	0.035	14.260	12.026	1.00	16.05		C
ANISOU	384	CA	ALA	A	63	1387	2623	2089	-176	27	407	C
ATOM	385	C	ALA	A	63	0.327	14.045	10.546	1.00	16.86		C
ANISOU	385	C	ALA	A	63	1616	2747	2044	213	-287	242	C
ATOM	386	O	ALA	A	63	-0.246	14.758	9.737	1.00	17.24		O
ANISOU	386	O	ALA	A	63	2080	2329	2139	-2	-468	222	O
ATOM	387	CB	ALA	A	63	-1.126	15.214	12.184	1.00	19.94		C
ANISOU	387	CB	ALA	A	63	1261	3463	2850	49	153	56	C

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ATOM	388	N	PRO A 64	1.194	13.127	10.183	1.00	17.05		N
ANISOU	388	N	PRO A 64	1619	2233	2628	-94	403	502	N
ATOM	389	CA	PRO A 64	1.618	13.050	8.788	1.00	17.85		C
ANISOU	389	CA	PRO A 64	2057	2271	2452	-95	156	184	C
ATOM	390	C	PRO A 64	0.522	12.543	7.897	1.00	23.53		C
ANISOU	390	C	PRO A 64	3060	2590	3290	-874	-344	89	C
ATOM	391	O	PRO A 64	-0.522	12.064	8.308	1.00	25.82		O
ANISOU	391	O	PRO A 64	2693	2530	4588	-703	147	-1074	O
ATOM	392	CB	PRO A 64	2.745	12.005	8.786	1.00	19.74		C
ANISOU	392	CB	PRO A 64	3287	1852	2363	379	348	34	C
ATOM	393	CG	PRO A 64	2.344	11.129	9.937	1.00	20.35		C
ANISOU	393	CG	PRO A 64	2717	2248	2768	182	457	265	C
ATOM	394	CD	PRO A 64	1.838	12.086	10.995	1.00	18.70		C
ANISOU	394	CD	PRO A 64	1969	2604	2530	366	329	358	C
ATOM	395	N	ALA A 65	0.817	12.666	6.603	1.00	28.90		N
ANISOU	395	N	ALA A 65	3997	3974	3009	-878	-759	-44	N
ATOM	396	CA	ALA A 65	-0.126	12.038	5.692	1.00	30.59		C
ANISOU	396	CA	ALA A 65	4410	3966	3247	-1886	-1360	1411	C
ATOM	397	C	ALA A 65	-0.024	10.515	5.809	1.00	28.46		C
ANISOU	397	C	ALA A 65	3789	3898	3127	-900	-1088	281	C
ATOM	398	O	ALA A 65	1.014	9.935	6.178	1.00	35.75		O
ANISOU	398	O	ALA A 65	4128	5513	3944	-729	-1315	1857	O
ATOM	399	CB	ALA A 65	0.128	12.519	4.271	1.00	33.98		C
ANISOU	399	CB	ALA A 65	4248	5609	3053	-1895	-1011	1240	C
ATOM	400	N	THR A 66	-1.142	9.885	5.499	1.00	28.38		N
ANISOU	400	N	THR A 66	4234	3500	3051	-1105	-1328	369	N
ATOM	401	CA	THR A 66	-1.307	8.450	5.604	1.00	26.08		C
ANISOU	401	CA	THR A 66	3075	3291	3544	-200	-1049	80	C
ATOM	402	C	THR A 66	-1.381	7.755	4.253	1.00	26.90		C
ANISOU	402	C	THR A 66	2960	3708	3554	-744	-1054	-25	C
ATOM	403	O	THR A 66	-1.970	6.663	4.219	1.00	34.53		O
ANISOU	403	O	THR A 66	5118	4466	3535	-2011	-1146	48	O
ATOM	404	CB	THR A 66	-2.627	8.096	6.331	1.00	34.16		C
ANISOU	404	CB	THR A 66	4801	4060	4119	-604	268	1135	C
ATOM	405	OG1	THR A 66	-3.638	9.026	5.892	1.00	37.28		O
ANISOU	405	OG1	THR A 66	3813	6165	4186	575	1295	654	O
ATOM	406	CG2	THR A 66	-2.407	8.167	7.837	1.00	48.59		C
ANISOU	406	CG2	THR A 66	8054	6429	3980	9	368	1412	C
ATOM	407	N	AASP A 67	-0.831	8.393	3.245	0.50	23.64		N
ANISOU	407	N	AASP A 67	2356	3285	3343	-203	-1664	386	N
ATOM	408	CA	AASP A 67	-0.999	7.956	1.880	0.50	21.02		C
ANISOU	408	CA	AASP A 67	2345	2057	3585	-1031	-1033	75	C
ATOM	409	C	AASP A 67	0.243	7.337	1.261	0.50	25.31		C
ANISOU	409	C	AASP A 67	2222	3192	4204	-874	-764	231	C
ATOM	410	O	AASP A 67	0.348	7.288	0.031	0.50	25.79		O
ANISOU	410	O	AASP A 67	2024	3550	4224	-166	-51	1753	O
ATOM	411	CB	AASP A 67	-1.414	9.200	1.073	0.50	21.81		C
ANISOU	411	CB	AASP A 67	2366	2632	3290	-1255	-1904	272	C
ATOM	412	CG	AASP A 67	-0.286	10.225	1.172	0.50	21.88		C
ANISOU	412	CG	AASP A 67	2207	2503	3602	-1194	-1712	755	C
ATOM	413	OD1A	AASP A 67	0.700	9.987	1.900	0.50	21.05		O
ANISOU	413	OD1A	AASP A 67	1445	2014	4540	-358	-1516	-353	O
ATOM	414	OD2A	AASP A 67	-0.396	11.281	0.520	0.50	31.37		O
ANISOU	414	OD2A	AASP A 67	2216	3667	6036	-1063	-1061	2446	O
ATOM	415	N	GLY A 68	1.168	6.860	2.077	1.00	27.55		N
ANISOU	415	N	GLY A 68	2301	4204	3963	-501	-676	130	N

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ATOM	416	CA	GLY A 68	2.398	6.165	1.666	1.00	21.95		C
ANISOU	416	CA	GLY A 68	2772	2069	3497	-662	-765	30	C
ATOM	417	C	GLY A 68	3.612	7.058	1.808	1.00	21.19		C
ANISOU	417	C	GLY A 68	2592	2230	3229	-735	470	-310	C
ATOM	418	O	GLY A 68	4.752	6.751	1.535	1.00	31.43		O
ANISOU	418	O	GLY A 68	2852	2644	6447	-567	1083	-1021	O
ATOM	419	N	SER A 69	3.378	8.283	2.266	1.00	19.97		N
ANISOU	419	N	SER A 69	1989	2907	2691	-856	-69	-1182	N
ATOM	420	CA	SER A 69	4.438	9.235	2.407	1.00	16.82		C
ANISOU	420	CA	SER A 69	1966	2641	1783	-790	-446	-275	C
ATOM	421	C	SER A 69	5.205	9.070	3.724	1.00	18.54		C
ANISOU	421	C	SER A 69	2039	3288	1718	-969	-285	95	C
ATOM	422	O	SER A 69	4.684	8.628	4.739	1.00	17.26		O
ANISOU	422	O	SER A 69	2533	2199	1826	-1099	-189	-14	O
ATOM	423	CB	SER A 69	3.858	10.673	2.389	1.00	20.76		C
ANISOU	423	CB	SER A 69	2673	2673	2543	-568	-642	-391	C
ATOM	424	OG	SER A 69	2.947	10.792	1.314	1.00	38.98		O
ANISOU	424	OG	SER A 69	5593	5200	4019	2200	-2465	-1225	O
ATOM	425	N	GLY A 70	6.472	9.470	3.695	1.00	15.63		N
ANISOU	425	N	GLY A 70	1571	2922	1445	-283	-117	-419	N
ATOM	426	CA	GLY A 70	7.271	9.580	4.878	1.00	13.27		C
ANISOU	426	CA	GLY A 70	1782	1963	1297	-192	-101	-214	C
ATOM	427	C	GLY A 70	6.775	10.693	5.782	1.00	10.79		C
ANISOU	427	C	GLY A 70	1172	1688	1239	-334	-63	58	C
ATOM	428	O	GLY A 70	5.969	11.529	5.427	1.00	13.05		O
ANISOU	428	O	GLY A 70	1602	1795	1563	-166	-258	71	O
ATOM	429	N	THR A 71	7.303	10.677	6.992	1.00	11.87		N
ANISOU	429	N	THR A 71	1699	1587	1224	-325	-215	-52	N
ATOM	430	CA	THR A 71	7.034	11.700	7.974	1.00	11.21		C
ANISOU	430	CA	THR A 71	1764	1102	1393	-367	-215	79	C
ATOM	431	C	THR A 71	8.208	12.650	8.084	1.00	10.38		C
ANISOU	431	C	THR A 71	1526	1259	1158	-336	13	226	C
ATOM	432	O	THR A 71	9.324	12.235	8.432	1.00	10.96		O
ANISOU	432	O	THR A 71	1505	1612	1048	-81	66	-85	O
ATOM	433	CB	THR A 71	6.883	11.028	9.356	1.00	11.82		C
ANISOU	433	CB	THR A 71	1783	1205	1504	-317	543	67	C
ATOM	434	OG1	THR A 71	5.734	10.182	9.319	1.00	13.04		O
ANISOU	434	OG1	THR A 71	1618	1803	1534	-456	194	-64	O
ATOM	435	CG2	THR A 71	6.666	12.048	10.458	1.00	13.23		C
ANISOU	435	CG2	THR A 71	1557	1816	1655	-195	343	-326	C
ATOM	436	N	ALA A 72	7.973	13.903	7.751	1.00	9.53		N
ANISOU	436	N	ALA A 72	1384	1174	1064	-416	197	79	N
ATOM	437	CA	ALA A 72	9.046	14.900	7.746	1.00	10.05		C
ANISOU	437	CA	ALA A 72	1287	1430	1102	-530	-69	63	C
ATOM	438	C	ALA A 72	9.569	15.201	9.136	1.00	9.66		C
ANISOU	438	C	ALA A 72	906	1765	999	15	22	-86	C
ATOM	439	O	ALA A 72	8.759	15.290	10.055	1.00	10.92		O
ANISOU	439	O	ALA A 72	1076	1741	1331	-286	276	-232	O
ATOM	440	CB	ALA A 72	8.518	16.179	7.087	1.00	10.54		C
ANISOU	440	CB	ALA A 72	1693	1336	977	-739	-109	224	C
ATOM	441	N	LEU A 73	10.884	15.370	9.278	1.00	10.66		N
ANISOU	441	N	LEU A 73	890	2261	901	140	82	-453	N
ATOM	442	CA	LEU A 73	11.438	15.691	10.578	1.00	9.27		C
ANISOU	442	CA	LEU A 73	1053	1513	957	117	-33	-358	C
ATOM	443	C	LEU A 73	12.786	16.375	10.388	1.00	9.64		C
ANISOU	443	C	LEU A 73	1170	1662	830	-21	-39	-186	C

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ATOM	444	O	LEU	A	73	13.362	16.343	9.283	1.00	11.25	O	
ANISOU	444	O	LEU	A	73	1437	1854	982	-185	187	-426	O
ATOM	445	CB	LEU	A	73	11.640	14.442	11.425	1.00	10.00	C	
ANISOU	445	CB	LEU	A	73	1165	1471	1164	63	161	-274	C
ATOM	446	CG	ALEU	A	73	12.779	13.470	11.229	0.50	11.53	C	
ANISOU	446	CG	ALEU	A	73	1395	1793	1194	355	404	175	C
ATOM	447	CG	BLEU	A	73	12.205	13.261	10.600	0.50	11.79	C	
ANISOU	447	CG	BLEU	A	73	1055	1565	1858	208	949	-63	C
ATOM	448	CD1	ALEU	A	73	12.710	12.358	12.279	0.50	12.81	C	
ANISOU	448	CD1	ALEU	A	73	1981	1143	1744	36	663	73	C
ATOM	449	CD1	BLEU	A	73	13.707	13.250	10.365	0.50	17.76	C	
ANISOU	449	CD1	BLEU	A	73	945	3605	2198	904	620	873	C
ATOM	450	CD2	ALEU	A	73	12.686	12.921	9.815	0.50	11.39	C	
ANISOU	450	CD2	ALEU	A	73	304	2545	1479	584	246	-344	C
ATOM	451	CD2	BLEU	A	73	11.834	11.960	11.311	0.50	16.72	C	
ANISOU	451	CD2	BLEU	A	73	2522	1349	2482	-351	146	-19	C
ATOM	452	N	GLY	A	74	13.323	16.913	11.463	1.00	8.87	N	
ANISOU	452	N	GLY	A	74	1014	1559	795	45	-6	-94	N
ATOM	453	CA	GLY	A	74	14.694	17.417	11.458	1.00	8.67	C	
ANISOU	453	CA	GLY	A	74	1035	1344	914	26	-91	-26	C
ATOM	454	C	GLY	A	74	15.214	17.524	12.873	1.00	7.98	C	
ANISOU	454	C	GLY	A	74	916	1300	816	-85	21	185	C
ATOM	455	O	GLY	A	74	14.407	17.565	13.794	1.00	8.60	O	
ANISOU	455	O	GLY	A	74	945	1399	922	10	74	27	O
ATOM	456	N	TRP	A	75	16.501	17.574	13.038	1.00	7.21	N	
ANISOU	456	N	TRP	A	75	875	1007	857	7	-9	-110	N
ATOM	457	CA	TRP	A	75	17.043	17.825	14.390	1.00	7.72	C	
ANISOU	457	CA	TRP	A	75	994	1052	888	127	-70	29	C
ATOM	458	C	TRP	A	75	18.419	18.443	14.246	1.00	7.51	C	
ANISOU	458	C	TRP	A	75	936	1225	693	85	-165	-10	C
ATOM	459	O	TRP	A	75	19.034	18.453	13.176	1.00	9.16	O	
ANISOU	459	O	TRP	A	75	1212	1461	806	-19	52	-69	O
ATOM	460	CB	TRP	A	75	17.100	16.563	15.248	1.00	9.09	C	
ANISOU	460	CB	TRP	A	75	1103	1240	1109	104	4	206	C
ATOM	461	CG	TRP	A	75	18.075	15.531	14.789	1.00	8.50	C	
ANISOU	461	CG	TRP	A	75	1064	900	1266	-97	81	260	C
ATOM	462	CD1	TRP	A	75	19.369	15.396	15.174	1.00	9.58	C	
ANISOU	462	CD1	TRP	A	75	967	1531	1141	5	273	-85	C
ATOM	463	CD2	TRP	A	75	17.843	14.472	13.856	1.00	8.66	C	
ANISOU	463	CD2	TRP	A	75	1171	1348	771	-41	228	188	C
ATOM	464	NE1	TRP	A	75	19.955	14.344	14.567	1.00	10.47	N	
ANISOU	464	NE1	TRP	A	75	1106	1566	1305	76	268	-77	N
ATOM	465	CE2	TRP	A	75	19.041	13.734	13.724	1.00	8.83	C	
ANISOU	465	CE2	TRP	A	75	1159	1402	793	-60	374	141	C
ATOM	466	CE3	TRP	A	75	16.732	14.073	13.125	1.00	9.06	C	
ANISOU	466	CE3	TRP	A	75	1406	1147	890	25	-58	304	C
ATOM	467	CZ2	TRP	A	75	19.157	12.630	12.888	1.00	10.39	C	
ANISOU	467	CZ2	TRP	A	75	1739	1272	939	60	390	184	C
ATOM	468	CZ3	TRP	A	75	16.852	12.973	12.285	1.00	11.48	C	
ANISOU	468	CZ3	TRP	A	75	1844	1193	1325	-247	28	108	C
ATOM	469	CH2	TRP	A	75	18.045	12.264	12.168	1.00	12.07	C	
ANISOU	469	CH2	TRP	A	75	2151	1533	902	79	194	-178	C
ATOM	470	N	THR	A	76	18.873	19.018	15.342	1.00	7.99	N	
ANISOU	470	N	THR	A	76	1194	1148	693	-18	-113	17	N
ATOM	471	CA	THR	A	76	20.156	19.663	15.452	1.00	7.69	C	
ANISOU	471	CA	THR	A	76	1038	1287	598	-39	-66	-69	C

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ATOM	472	C	THR	A	76	20.971	19.096	16.609	1.00	7.65		C
ANISOU	472	C	THR	A	76	1071	1242	595	-2	23	14	C
ATOM	473	O	THR	A	76	20.418	18.782	17.661	1.00	8.77		O
ANISOU	473	O	THR	A	76	981	1632	718	159	95	112	O
ATOM	474	CB	THR	A	76	19.963	21.175	15.766	1.00	8.60		C
ANISOU	474	CB	THR	A	76	1134	1209	923	-91	-170	36	C
ATOM	475	OG1	THR	A	76	19.155	21.823	14.777	1.00	9.81		O
ANISOU	475	OG1	THR	A	76	1422	1370	935	44	-324	-68	O
ATOM	476	CG2	THR	A	76	21.295	21.896	15.740	1.00	9.44		C
ANISOU	476	CG2	THR	A	76	1088	1166	1333	-16	-36	100	C
ATOM	477	N	VAL	A	77	22.260	19.015	16.360	1.00	8.41		N
ANISOU	477	N	VAL	A	77	1046	1463	684	7	-6	117	N
ATOM	478	CA	VAL	A	77	23.265	18.807	17.379	1.00	9.19		C
ANISOU	478	CA	VAL	A	77	1181	1546	766	120	-124	58	C
ATOM	479	C	VAL	A	77	24.265	19.963	17.338	1.00	9.30		C
ANISOU	479	C	VAL	A	77	954	1747	833	98	-19	27	C
ATOM	480	O	VAL	A	77	24.843	20.173	16.276	1.00	10.02		O
ANISOU	480	O	VAL	A	77	1093	1945	767	118	-45	67	O
ATOM	481	CB	VAL	A	77	24.030	17.496	17.196	1.00	9.66		C
ANISOU	481	CB	VAL	A	77	1379	1697	595	309	73	156	C
ATOM	482	CG1	VAL	A	77	25.222	17.386	18.124	1.00	10.78		C
ANISOU	482	CG1	VAL	A	77	1581	1861	653	662	-25	-78	C
ATOM	483	CG2	VAL	A	77	23.076	16.331	17.419	1.00	10.94		C
ANISOU	483	CG2	VAL	A	77	1793	1541	825	288	257	241	C
ATOM	484	N	ALA	A	78	24.479	20.673	18.441	1.00	9.19		N
ANISOU	484	N	ALA	A	78	879	1835	778	-58	47	42	N
ATOM	485	CA	ALA	A	78	25.642	21.539	18.575	1.00	9.05		C
ANISOU	485	CA	ALA	A	78	942	1322	1173	20	75	193	C
ATOM	486	C	ALA	A	78	26.739	20.694	19.238	1.00	8.73		C
ANISOU	486	C	ALA	A	78	985	1537	795	-75	-87	88	C
ATOM	487	O	ALA	A	78	26.493	20.064	20.257	1.00	10.22		O
ANISOU	487	O	ALA	A	78	1501	1550	831	118	59	132	O
ATOM	488	CB	ALA	A	78	25.412	22.810	19.378	1.00	10.99		C
ANISOU	488	CB	ALA	A	78	1548	1630	999	124	19	-17	C
ATOM	489	N	TRP	A	79	27.923	20.676	18.650	1.00	8.82		N
ANISOU	489	N	TRP	A	79	833	1643	877	-67	-199	-33	N
ATOM	490	CA	TRP	A	79	28.951	19.724	19.030	1.00	8.92		C
ANISOU	490	CA	TRP	A	79	1014	1814	562	43	-127	156	C
ATOM	491	C	TRP	A	79	29.792	20.197	20.228	1.00	8.14		C
ANISOU	491	C	TRP	A	79	917	1458	718	102	-120	88	C
ATOM	492	O	TRP	A	79	31.012	20.206	20.218	1.00	9.53		O
ANISOU	492	O	TRP	A	79	897	1741	984	80	-146	143	O
ATOM	493	CB	TRP	A	79	29.831	19.406	17.824	1.00	9.16		C
ANISOU	493	CB	TRP	A	79	1288	1432	761	-56	57	-8	C
ATOM	494	CG	TRP	A	79	29.030	18.736	16.742	1.00	8.96		C
ANISOU	494	CG	TRP	A	79	1220	1320	864	56	-21	-51	C
ATOM	495	CD1	TRP	A	79	28.584	19.292	15.581	1.00	9.06		C
ANISOU	495	CD1	TRP	A	79	1355	1212	877	245	-8	-73	C
ATOM	496	CD2	TRP	A	79	28.589	17.379	16.725	1.00	8.68		C
ANISOU	496	CD2	TRP	A	79	1216	1216	866	261	-222	-40	C
ATOM	497	NE1	TRP	A	79	27.888	18.374	14.837	1.00	10.44		N
ANISOU	497	NE1	TRP	A	79	1772	1388	805	42	-198	88	N
ATOM	498	CE2	TRP	A	79	27.875	17.173	15.516	1.00	9.13		C
ANISOU	498	CE2	TRP	A	79	1148	1443	880	-33	-240	159	C
ATOM	499	CE3	TRP	A	79	28.731	16.311	17.605	1.00	9.35		C
ANISOU	499	CE3	TRP	A	79	1357	1511	685	-96	-132	156	C

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ATOM	500	CZ2	TRP	A	79	27.309	15.963	15.176	1.00	9.39		C
ANISOU	500	CZ2	TRP	A	79	1374	1509	683	-169	13	18	C
ATOM	501	CZ3	TRP	A	79	28.165	15.100	17.262	1.00	10.12		C
ANISOU	501	CZ3	TRP	A	79	1398	1418	1028	-53	-234	176	C
ATOM	502	CH2	TRP	A	79	27.470	14.922	16.081	1.00	9.11		C
ANISOU	502	CH2	TRP	A	79	1132	1542	788	-184	59	85	C
ATOM	503	N	LYS	A	80	29.024	20.575	21.252	1.00	9.55		N
ANISOU	503	N	LYS	A	80	1266	1789	573	-30	67	79	N
ATOM	504	CA	LYS	A	80	29.567	20.876	22.558	1.00	9.38		C
ANISOU	504	CA	LYS	A	80	1229	1602	731	-38	-40	130	C
ATOM	505	C	LYS	A	80	28.855	19.993	23.567	1.00	10.07		C
ANISOU	505	C	LYS	A	80	1266	1923	637	-243	-273	260	C
ATOM	506	O	LYS	A	80	27.624	19.960	23.610	1.00	10.06		O
ANISOU	506	O	LYS	A	80	1230	1511	1080	-208	-69	125	O
ATOM	507	CB	LYS	A	80	29.333	22.321	22.939	1.00	10.32		C
ANISOU	507	CB	LYS	A	80	1496	1626	799	202	-373	98	C
ATOM	508	CG	LYS	A	80	29.833	22.695	24.304	1.00	11.81		C
ANISOU	508	CG	LYS	A	80	1606	2138	743	356	-184	-143	C
ATOM	509	CD	LYS	A	80	29.445	24.125	24.656	1.00	11.80		C
ANISOU	509	CD	LYS	A	80	1286	2281	917	355	38	-362	C
ATOM	510	CE	LYS	A	80	30.127	24.644	25.909	1.00	15.29		C
ANISOU	510	CE	LYS	A	80	1763	2721	1327	743	-358	-728	C
ATOM	511	NZ	LYS	A	80	29.786	23.896	27.122	1.00	24.31		N
ANISOU	511	NZ	LYS	A	80	5232	2904	1099	1518	-989	-95	N
ATOM	512	N	ASN	A	81	29.635	19.296	24.366	1.00	10.34		N
ANISOU	512	N	ASN	A	81	1279	1912	735	-1	-64	235	N
ATOM	513	CA	ASN	A	81	29.130	18.559	25.521	1.00	9.66		C
ANISOU	513	CA	ASN	A	81	1330	1727	613	303	33	182	C
ATOM	514	C	ASN	A	81	30.098	18.810	26.662	1.00	11.01		C
ANISOU	514	C	ASN	A	81	1392	2161	630	222	-8	-43	C
ATOM	515	O	ASN	A	81	30.940	19.706	26.603	1.00	13.46		O
ANISOU	515	O	ASN	A	81	2104	1988	1024	-42	-269	66	O
ATOM	516	CB	ASN	A	81	28.925	17.093	25.199	1.00	10.68		C
ANISOU	516	CB	ASN	A	81	1470	1745	843	166	-181	239	C
ATOM	517	CG	ASN	A	81	30.154	16.317	24.841	1.00	9.94		C
ANISOU	517	CG	ASN	A	81	1322	1287	1170	-29	-201	257	C
ATOM	518	OD1	ASN	A	81	31.261	16.793	25.061	1.00	11.75		O
ANISOU	518	OD1	ASN	A	81	1391	1903	1170	-7	-339	-165	O
ATOM	519	ND2	ASN	A	81	30.025	15.109	24.335	1.00	11.57		N
ANISOU	519	ND2	ASN	A	81	1886	1404	1105	-15	-219	165	N
ATOM	520	N	ASN	A	82	29.947	18.031	27.729	1.00	12.41		N
ANISOU	520	N	ASN	A	82	1738	2230	748	-69	-303	63	N
ATOM	521	CA	ASN	A	82	30.806	18.359	28.865	1.00	14.08		C
ANISOU	521	CA	ASN	A	82	1984	2637	729	206	-409	45	C
ATOM	522	C	ASN	A	82	32.207	17.812	28.734	1.00	12.95		C
ANISOU	522	C	ASN	A	82	2046	1916	960	227	-597	127	C
ATOM	523	O	ASN	A	82	32.933	17.935	29.709	1.00	16.30		O
ANISOU	523	O	ASN	A	82	2039	3093	1061	341	-575	-273	O
ATOM	524	CB	ASN	A	82	30.142	17.898	30.159	1.00	19.38		C
ANISOU	524	CB	ASN	A	82	2582	4005	776	-316	-293	185	C
ATOM	525	CG	ASN	A	82	28.868	18.665	30.437	1.00	21.60		C
ANISOU	525	CG	ASN	A	82	2499	4251	1457	-586	308	-304	C
ATOM	526	OD1	ASN	A	82	27.884	18.059	30.862	1.00	28.02		O
ANISOU	526	OD1	ASN	A	82	3048	5510	2089	-1099	712	-27	O
ATOM	527	ND2	ASN	A	82	28.765	19.968	30.220	1.00	21.64		N
ANISOU	527	ND2	ASN	A	82	2537	4457	1227	-7	69	-19	N

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ATOM	528	N	TYR	A	83	32.534	17.256	27.597	1.00	11.70	N	
ANISOU	528	N	TYR	A	83	1494	2041	909	-51	-447	166	N
ATOM	529	CA	TYR	A	83	33.867	16.689	27.367	1.00	12.77	C	
ANISOU	529	CA	TYR	A	83	1496	2054	1303	18	-516	254	C
ATOM	530	C	TYR	A	83	34.618	17.349	26.222	1.00	13.13	C	
ANISOU	530	C	TYR	A	83	1560	2193	1235	369	-194	84	C
ATOM	531	O	TYR	A	83	35.852	17.343	26.154	1.00	17.29	O	
ANISOU	531	O	TYR	A	83	1568	3750	1253	465	-65	163	O
ATOM	532	CB	TYR	A	83	33.732	15.160	27.117	1.00	15.45	C	
ANISOU	532	CB	TYR	A	83	2130	2037	1701	143	-592	-60	C
ATOM	533	CG	TYR	A	83	32.929	14.624	28.296	1.00	16.49	C	
ANISOU	533	CG	TYR	A	83	2545	1846	1874	-323	-741	151	C
ATOM	534	CD1	TYR	A	83	33.586	14.401	29.503	1.00	16.29	C	
ANISOU	534	CD1	TYR	A	83	2815	1668	1706	527	-550	-85	C
ATOM	535	CD2	TYR	A	83	31.568	14.398	28.252	1.00	20.51	C	
ANISOU	535	CD2	TYR	A	83	2749	2677	2365	-958	-696	628	C
ATOM	536	CE1	TYR	A	83	32.926	13.924	30.622	1.00	20.08	C	
ANISOU	536	CE1	TYR	A	83	3543	1769	2317	-778	-1050	839	C
ATOM	537	CE2	TYR	A	83	30.900	13.926	29.390	1.00	19.60	C	
ANISOU	537	CE2	TYR	A	83	2864	2061	2521	-371	-566	927	C
ATOM	538	CZ	TYR	A	83	31.564	13.694	30.563	1.00	23.22	C	
ANISOU	538	CZ	TYR	A	83	3595	2158	3071	-1066	-1104	1715	C
ATOM	539	OH	TYR	A	83	30.920	13.245	31.726	1.00	19.90	O	
ANISOU	539	OH	TYR	A	83	3371	2019	2170	-88	-694	340	O
ATOM	540	N	ARG	A	84	33.921	17.962	25.287	1.00	12.34	N	
ANISOU	540	N	ARG	A	84	1492	1728	1468	-144	-178	358	N
ATOM	541	CA	ARG	A	84	34.558	18.488	24.074	1.00	11.90	C	
ANISOU	541	CA	ARG	A	84	1279	1766	1476	-3	-127	256	C
ATOM	542	C	ARG	A	84	33.706	19.559	23.429	1.00	9.21	C	
ANISOU	542	C	ARG	A	84	961	1936	601	-33	-54	-33	C
ATOM	543	O	ARG	A	84	32.494	19.551	23.549	1.00	11.84	O	
ANISOU	543	O	ARG	A	84	992	2457	1048	33	-40	154	O
ATOM	544	CB	ARG	A	84	34.677	17.327	23.118	1.00	15.50	C	
ANISOU	544	CB	ARG	A	84	2447	1881	1561	315	-103	208	C
ATOM	545	CG	ARG	A	84	35.642	17.508	21.953	1.00	18.86	C	
ANISOU	545	CG	ARG	A	84	2847	2846	1474	-53	20	-184	C
ATOM	546	CD	ARG	A	84	35.648	16.137	21.284	1.00	28.04	C	
ANISOU	546	CD	ARG	A	84	4611	4202	1842	-173	-435	-1761	C
ATOM	547	NE	ARG	A	84	36.569	15.984	20.240	1.00	35.56	N	
ANISOU	547	NE	ARG	A	84	5418	4407	3684	836	794	-1491	N
ATOM	548	CZ	ARG	A	84	37.464	15.040	19.974	1.00	35.72	C	
ANISOU	548	CZ	ARG	A	84	5383	4115	4074	971	521	-840	C
ATOM	549	NH1	ARG	A	84	38.184	15.203	18.864	1.00	36.67	N	
ANISOU	549	NH1	ARG	A	84	4725	6148	3061	3240	-294	94	N
ATOM	550	NH2	ARG	A	84	37.635	13.999	20.775	1.00	33.19	N	
ANISOU	550	NH2	ARG	A	84	4930	3877	3805	-341	-389	-983	N
ATOM	551	N	ASN	A	85	34.325	20.466	22.713	1.00	10.90	N	
ANISOU	551	N	ASN	A	85	1089	2091	963	102	-20	332	N
ATOM	552	CA	ASN	A	85	33.633	21.466	21.936	1.00	10.60	C	
ANISOU	552	CA	ASN	A	85	1093	2058	875	162	-138	145	C
ATOM	553	C	ASN	A	85	34.327	21.658	20.587	1.00	10.63	C	
ANISOU	553	C	ASN	A	85	1038	2092	908	47	-93	237	C
ATOM	554	O	ASN	A	85	35.467	22.097	20.528	1.00	15.91	O	
ANISOU	554	O	ASN	A	85	1187	3484	1375	-462	-92	115	O
ATOM	555	CB	ASN	A	85	33.538	22.796	22.685	1.00	13.02	C	
ANISOU	555	CB	ASN	A	85	1771	2099	1077	179	-202	-6	C

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ATOM	556	CG	ASN	A	85	32.562	23.740	22.012	1.00	12.19		C
ANISOU	556	CG	ASN	A	85	1754	1983	894	223	207	220	C
ATOM	557	OD1	ASN	A	85	32.023	23.495	20.924	1.00	11.77		O
ANISOU	557	OD1	ASN	A	85	1425	1854	1194	146	0	126	O
ATOM	558	ND2	ASN	A	85	32.314	24.859	22.689	1.00	12.91		N
ANISOU	558	ND2	ASN	A	85	1299	2238	1367	120	-117	-186	N
ATOM	559	N	ALA	A	86	33.614	21.329	19.513	1.00	10.49		N
ANISOU	559	N	ALA	A	86	1086	2002	897	-34	-45	182	N
ATOM	560	CA	ALA	A	86	34.138	21.482	18.172	1.00	10.60		C
ANISOU	560	CA	ALA	A	86	1560	1594	872	73	60	-45	C
ATOM	561	C	ALA	A	86	33.769	22.793	17.508	1.00	9.61		C
ANISOU	561	C	ALA	A	86	1228	1747	677	90	-181	-52	C
ATOM	562	O	ALA	A	86	34.185	23.012	16.375	1.00	12.28		O
ANISOU	562	O	ALA	A	86	1470	2079	1118	121	286	290	O
ATOM	563	CB	ALA	A	86	33.557	20.351	17.309	1.00	11.03		C
ANISOU	563	CB	ALA	A	86	1245	1783	1163	-74	-362	34	C
ATOM	564	N	HIS	A	87	32.977	23.604	18.198	1.00	10.68		N
ANISOU	564	N	HIS	A	87	1504	1576	978	27	-19	-122	N
ATOM	565	CA	HIS	A	87	32.535	24.892	17.669	1.00	9.83		C
ANISOU	565	CA	HIS	A	87	1294	1600	841	-41	-224	-128	C
ATOM	566	C	HIS	A	87	31.882	24.689	16.307	1.00	10.74		C
ANISOU	566	C	HIS	A	87	1147	2200	731	-205	-19	-130	C
ATOM	567	O	HIS	A	87	32.256	25.269	15.284	1.00	11.15		O
ANISOU	567	O	HIS	A	87	1382	2024	831	-123	-62	36	O
ATOM	568	CB	HIS	A	87	33.719	25.849	17.549	1.00	11.94		C
ANISOU	568	CB	HIS	A	87	1806	1863	869	-427	-309	21	C
ATOM	569	CG	HIS	A	87	34.439	26.112	18.820	1.00	11.08		C
ANISOU	569	CG	HIS	A	87	1418	1863	927	-254	-202	-129	C
ATOM	570	ND1	HIS	A	87	33.751	26.500	19.957	1.00	11.16		N
ANISOU	570	ND1	HIS	A	87	1397	1934	907	-62	-279	-187	N
ATOM	571	CD2	HIS	A	87	35.726	26.034	19.181	1.00	12.67		C
ANISOU	571	CD2	HIS	A	87	1459	2244	1111	115	-219	-331	C
ATOM	572	CE1	HIS	A	87	34.600	26.654	20.948	1.00	12.67		C
ANISOU	572	CE1	HIS	A	87	1313	2642	858	92	-293	-62	C
ATOM	573	NE2	HIS	A	87	35.811	26.387	20.525	1.00	13.11		N
ANISOU	573	NE2	HIS	A	87	1441	2482	1058	315	-319	-327	N
ATOM	574	N	SER	A	88	30.843	23.849	16.304	1.00	9.66		N
ANISOU	574	N	SER	A	88	1290	1710	671	-97	-147	-182	N
ATOM	575	CA	SER	A	88	30.165	23.448	15.090	1.00	8.77		C
ANISOU	575	CA	SER	A	88	1151	1459	725	17	-200	42	C
ATOM	576	C	SER	A	88	28.788	22.909	15.493	1.00	9.39		C
ANISOU	576	C	SER	A	88	1061	1567	939	80	-218	169	C
ATOM	577	O	SER	A	88	28.532	22.610	16.651	1.00	9.19		O
ANISOU	577	O	SER	A	88	1217	1497	780	-36	-136	-12	O
ATOM	578	CB	SER	A	88	30.991	22.423	14.317	1.00	9.37		C
ANISOU	578	CB	SER	A	88	1375	1604	583	-42	-102	-104	C
ATOM	579	OG	SER	A	88	31.056	21.242	15.071	1.00	10.61		O
ANISOU	579	OG	SER	A	88	1308	1621	1102	203	13	58	O
ATOM	580	N	ALA	A	89	27.936	22.809	14.452	1.00	8.37		N
ANISOU	580	N	ALA	A	89	1247	1303	629	-379	1	105	N
ATOM	581	CA	ALA	A	89	26.593	22.290	14.655	1.00	8.64		C
ANISOU	581	CA	ALA	A	89	1096	1329	857	-203	5	-187	C
ATOM	582	C	ALA	A	89	26.143	21.593	13.369	1.00	8.17		C
ANISOU	582	C	ALA	A	89	1180	1265	658	-154	-181	30	C
ATOM	583	O	ALA	A	89	26.433	22.106	12.307	1.00	9.20		O
ANISOU	583	O	ALA	A	89	1376	1310	810	-74	19	84	O

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ATOM	584	CB	ALA	A	89	25.589	23.344	15.020	1.00	10.37		C
ANISOU	584	CB	ALA	A	89	1344	1377	1218	-27	-148	-254	C
ATOM	585	N	THR	A	90	25.454	20.488	13.518	1.00	7.95		N
ANISOU	585	N	THR	A	90	1127	1224	671	-92	-144	7	N
ATOM	586	CA	THR	A	90	24.850	19.798	12.366	1.00	7.98		C
ANISOU	586	CA	THR	A	90	1071	1284	677	-264	-124	105	C
ATOM	587	C	THR	A	90	23.344	19.823	12.506	1.00	7.66		C
ANISOU	587	C	THR	A	90	1081	895	933	-100	-136	131	C
ATOM	588	O	THR	A	90	22.784	19.597	13.573	1.00	9.03		O
ANISOU	588	O	THR	A	90	1112	1434	887	-158	-49	23	O
ATOM	589	CB	ATHR	A	90	25.320	18.344	12.324	0.80	8.55		C
ANISOU	589	CB	ATHR	A	90	975	1463	812	20	-146	-178	C
ATOM	590	CB	BTHR	A	90	25.222	18.319	12.209	0.20	9.52		C
ATOM	591	OG1	ATHR	A	90	26.751	18.366	12.277	0.80	7.29		O
ANISOU	591	OG1	ATHR	A	90	951	1574	245	-223	-186	190	O
ATOM	592	OG1	BTHR	A	90	26.469	18.184	11.540	0.20	9.46		O
ATOM	593	CG2	ATHR	A	90	24.851	17.603	11.094	0.80	7.37		C
ANISOU	593	CG2	ATHR	A	90	692	1494	614	-234	37	-21	C
ATOM	594	CG2	BTHR	A	90	24.318	17.545	11.250	0.20	6.23		C
ATOM	595	N	THR	A	91	22.668	20.030	11.377	1.00	8.22		N
ANISOU	595	N	THR	A	91	1003	1144	974	-62	-115	106	N
ATOM	596	CA	THR	A	91	21.261	19.753	11.267	1.00	7.42		C
ANISOU	596	CA	THR	A	91	928	935	957	-104	58	95	C
ATOM	597	C	THR	A	91	21.009	18.656	10.243	1.00	7.40		C
ANISOU	597	C	THR	A	91	852	1127	831	-137	151	55	C
ATOM	598	O	THR	A	91	21.609	18.676	9.183	1.00	8.99		O
ANISOU	598	O	THR	A	91	1139	1368	911	-90	274	47	O
ATOM	599	CB	THR	A	91	20.480	20.986	10.829	1.00	7.31		C
ANISOU	599	CB	THR	A	91	1007	1153	617	-77	-159	88	C
ATOM	600	OG1	THR	A	91	20.860	21.437	9.525	1.00	10.07		O
ANISOU	600	OG1	THR	A	91	1746	1479	601	133	-42	120	O
ATOM	601	CG2	THR	A	91	20.667	22.161	11.781	1.00	9.37		C
ANISOU	601	CG2	THR	A	91	1646	1108	806	295	48	-78	C
ATOM	602	N	TRP	A	92	20.113	17.751	10.629	1.00	8.36		N
ANISOU	602	N	TRP	A	92	943	1270	965	-284	160	-130	N
ATOM	603	CA	TRP	A	92	19.639	16.714	9.749	1.00	7.72		C
ANISOU	603	CA	TRP	A	92	979	1091	862	-171	-144	152	C
ATOM	604	C	TRP	A	92	18.185	17.031	9.365	1.00	6.67		C
ANISOU	604	C	TRP	A	92	986	883	666	49	65	-244	C
ATOM	605	O	TRP	A	92	17.405	17.288	10.262	1.00	8.46		O
ANISOU	605	O	TRP	A	92	1292	1245	679	-31	259	-129	O
ATOM	606	CB	TRP	A	92	19.707	15.342	10.371	1.00	8.44		C
ANISOU	606	CB	TRP	A	92	1068	1134	1005	35	25	121	C
ATOM	607	CG	TRP	A	92	21.027	14.755	10.710	1.00	8.03		C
ANISOU	607	CG	TRP	A	92	1074	1190	786	79	-19	101	C
ATOM	608	CD1	TRP	A	92	21.610	13.773	9.970	1.00	8.10		C
ANISOU	608	CD1	TRP	A	92	976	1111	991	-65	-56	-6	C
ATOM	609	CD2	TRP	A	92	21.914	15.050	11.789	1.00	8.96		C
ANISOU	609	CD2	TRP	A	92	1203	1161	1040	70	-129	-70	C
ATOM	610	NE1	TRP	A	92	22.817	13.444	10.544	1.00	9.04		N
ANISOU	610	NE1	TRP	A	92	1182	1215	1038	167	-128	18	N
ATOM	611	CE2	TRP	A	92	23.026	14.203	11.660	1.00	8.67		C
ANISOU	611	CE2	TRP	A	92	941	1394	960	-32	-23	-1	C
ATOM	612	CE3	TRP	A	92	21.883	15.935	12.866	1.00	8.56		C
ANISOU	612	CE3	TRP	A	92	1067	1403	781	-153	136	-12	C
ATOM	613	CZ2	TRP	A	92	24.092	14.223	12.557	1.00	9.80		C

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ANISOU	613	CZ2	TRP	A	92	1186	1280	1257	-166	-320	264	C
ATOM	614	CZ3	TRP	A	92	22.933	15.964	13.782	1.00	9.81		C
ANISOU	614	CZ3	TRP	A	92	1236	1402	1089	-398	-121	86	C
ATOM	615	CH2	TRP	A	92	24.011	15.104	13.604	1.00	10.71		C
ANISOU	615	CH2	TRP	A	92	1454	1755	859	-69	-312	308	C
ATOM	616	N	SER	A	93	17.928	16.958	8.086	1.00	7.79		N
ANISOU	616	N	SER	A	93	955	1416	588	-54	28	-12	N
ATOM	617	CA	SER	A	93	16.594	17.180	7.556	1.00	8.46		C
ANISOU	617	CA	SER	A	93	970	1356	889	-136	-25	-10	C
ATOM	618	C	SER	A	93	16.182	15.959	6.779	1.00	7.51		C
ANISOU	618	C	SER	A	93	717	1335	800	93	-72	-12	C
ATOM	619	O	SER	A	93	16.933	15.515	5.932	1.00	9.14		O
ANISOU	619	O	SER	A	93	1058	1480	936	-73	182	-87	O
ATOM	620	CB	SER	A	93	16.619	18.439	6.717	1.00	9.46		C
ANISOU	620	CB	SER	A	93	982	1533	1080	-282	-175	223	C
ATOM	621	OG	SER	A	93	15.306	18.699	6.254	1.00	10.74		O
ANISOU	621	OG	SER	A	93	1199	1342	1539	-44	-357	-5	O
ATOM	622	N	GLY	A	94	15.024	15.381	7.011	1.00	8.28		N
ANISOU	622	N	GLY	A	94	710	1282	1153	93	3	-202	N
ATOM	623	CA	GLY	A	94	14.699	14.198	6.240	1.00	9.34		C
ANISOU	623	CA	GLY	A	94	832	1144	1573	82	110	-260	C
ATOM	624	C	GLY	A	94	13.333	13.677	6.539	1.00	9.65		C
ANISOU	624	C	GLY	A	94	1342	1350	973	-321	662	-598	C
ATOM	625	O	GLY	A	94	12.428	14.411	6.924	1.00	9.42		O
ANISOU	625	O	GLY	A	94	1024	1605	951	-126	332	-403	O
ATOM	626	N	GLN	A	95	13.154	12.375	6.407	1.00	10.51		N
ANISOU	626	N	GLN	A	95	1042	1303	1647	-177	81	-254	N
ATOM	627	CA	GLN	A	95	11.860	11.778	6.665	1.00	10.60		C
ANISOU	627	CA	GLN	A	95	1015	1467	1545	-325	-150	18	C
ATOM	628	C	GLN	A	95	12.007	10.386	7.251	1.00	10.62		C
ANISOU	628	C	GLN	A	95	1079	1316	1641	-188	160	-232	C
ATOM	629	O	GLN	A	95	12.931	9.644	6.905	1.00	12.23		O
ANISOU	629	O	GLN	A	95	1266	1497	1884	-95	325	-43	O
ATOM	630	CB	GLN	A	95	11.039	11.683	5.394	1.00	15.15		C
ANISOU	630	CB	GLN	A	95	1521	2744	1491	-847	-263	244	C
ATOM	631	CG	GLN	A	95	11.540	11.166	4.111	1.00	18.76		C
ANISOU	631	CG	GLN	A	95	1832	3740	1556	-787	-308	-104	C
ATOM	632	CD	GLN	A	95	10.565	11.426	2.949	1.00	16.27		C
ANISOU	632	CD	GLN	A	95	1427	3372	1383	-261	90	-6	C
ATOM	633	OE1	GLN	A	95	9.345	11.342	3.115	1.00	14.01		O
ANISOU	633	OE1	GLN	A	95	1526	2709	1087	-388	198	-275	O
ATOM	634	NE2	GLN	A	95	11.149	11.745	1.795	1.00	15.64		N
ANISOU	634	NE2	GLN	A	95	1332	3299	1310	-496	126	-340	N
ATOM	635	N	TYR	A	96	11.045	10.087	8.100	1.00	10.31		N
ANISOU	635	N	TYR	A	96	1195	1395	1328	-200	100	-127	N
ATOM	636	CA	TYR	A	96	10.929	8.757	8.674	1.00	12.09		C
ANISOU	636	CA	TYR	A	96	1570	1615	1410	-339	-37	43	C
ATOM	637	C	TYR	A	96	10.021	7.939	7.776	1.00	11.04		C
ANISOU	637	C	TYR	A	96	1217	1504	1474	-395	280	16	C
ATOM	638	O	TYR	A	96	8.922	8.378	7.400	1.00	13.82		O
ANISOU	638	O	TYR	A	96	1155	2162	1933	-279	168	-131	O
ATOM	639	CB	TYR	A	96	10.337	8.875	10.050	1.00	10.82		C
ANISOU	639	CB	TYR	A	96	1065	1593	1452	-295	-76	81	C
ATOM	640	CG	TYR	A	96	9.737	7.640	10.648	1.00	11.62		C
ANISOU	640	CG	TYR	A	96	1315	1471	1630	-334	6	12	C
ATOM	641	CD1	TYR	A	96	10.509	6.718	11.325	1.00	13.26		C

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ANISOU	641	CD1 TYR A	96	1528	1689	1821	-151	169	228	C
ATOM	642	CD2 TYR A	96	8.372	7.382	10.562	1.00	14.16		C
ANISOU	642	CD2 TYR A	96	1387	1862	2131	-572	-84	243	C
ATOM	643	CE1 TYR A	96	9.989	5.574	11.900	1.00	16.73		C
ANISOU	643	CE1 TYR A	96	1966	1553	2839	-344	-88	413	C
ATOM	644	CE2 TYR A	96	7.820	6.254	11.118	1.00	20.51		C
ANISOU	644	CE2 TYR A	96	1619	2553	3620	-739	29	1137	C
ATOM	645	CZ TYR A	96	8.638	5.353	11.782	1.00	21.05		C
ANISOU	645	CZ TYR A	96	2184	2325	3490	-905	-411	1062	C
ATOM	646	OH TYR A	96	8.130	4.216	12.352	1.00	22.30		O
ANISOU	646	OH TYR A	96	2777	2470	3224	-1163	-328	1025	O
ATOM	647	N VAL A	97	10.525	6.750	7.484	1.00	14.61		N
ANISOU	647	N VAL A	97	2092	1537	1922	-146	110	-143	N
ATOM	648	CA VAL A	97	9.783	5.741	6.740	1.00	17.78		C
ANISOU	648	CA VAL A	97	2862	1656	2237	-359	-31	-315	C
ATOM	649	C VAL A	97	9.547	4.565	7.683	1.00	17.50		C
ANISOU	649	C VAL A	97	1969	1780	2899	-389	-83	28	C
ATOM	650	O VAL A	97	10.508	3.851	8.030	1.00	20.52		O
ANISOU	650	O VAL A	97	2106	1773	3920	-72	179	158	O
ATOM	651	CB VAL A	97	10.541	5.334	5.485	1.00	21.61		C
ANISOU	651	CB VAL A	97	3493	2742	1975	-451	-108	-632	C
ATOM	652	CG1 VAL A	97	9.621	4.457	4.642	1.00	30.57		C
ANISOU	652	CG1 VAL A	97	3967	4424	3225	-1091	197	-1982	C
ATOM	653	CG2 VAL A	97	11.008	6.525	4.667	1.00	27.06		C
ANISOU	653	CG2 VAL A	97	4592	4105	1583	-1089	-283	43	C
ATOM	654	N GLY A	98	8.288	4.403	8.082	1.00	21.16		N
ANISOU	654	N GLY A	98	2071	2575	3394	29	266	338	N
ATOM	655	CA GLY A	98	7.878	3.381	9.006	1.00	26.07		C
ANISOU	655	CA GLY A	98	3075	2337	4493	-397	1394	98	C
ATOM	656	C GLY A	98	7.729	1.960	8.531	1.00	32.81		C
ANISOU	656	C GLY A	98	3669	2269	6529	-148	698	-129	C
ATOM	657	O GLY A	98	8.190	1.620	7.438	1.00	35.92		O
ANISOU	657	O GLY A	98	5350	1980	6317	-1458	535	-927	O
ATOM	658	N GLY A	99	7.094	1.129	9.363	1.00	34.19		N
ANISOU	658	N GLY A	99	3937	2034	7021	-310	571	92	N
ATOM	659	CA GLY A	99	6.982	-0.296	9.068	1.00	35.67		C
ANISOU	659	CA GLY A	99	4295	2118	7138	-152	413	-83	C
ATOM	660	C GLY A	99	8.140	-1.088	9.675	1.00	34.88		C
ANISOU	660	C GLY A	99	4810	1710	6732	-532	-232	-44	C
ATOM	661	O GLY A	99	9.105	-0.558	10.217	1.00	39.31		O
ANISOU	661	O GLY A	99	5929	2692	6315	-241	-1058	-1173	O
ATOM	662	N ALA A	100	8.034	-2.404	9.581	1.00	35.92		N
ANISOU	662	N ALA A	100	5331	1710	6608	-290	187	-227	N
ATOM	663	CA ALA A	100	8.966	-3.371	10.136	1.00	35.66		C
ANISOU	663	CA ALA A	100	5370	1600	6579	-291	-267	-702	C
ATOM	664	C ALA A	100	10.419	-3.006	9.882	1.00	40.46		C
ANISOU	664	C ALA A	100	5250	3228	6897	-457	-414	-903	C
ATOM	665	O ALA A	100	11.218	-3.287	10.781	1.00	51.23		O
ANISOU	665	O ALA A	100	5113	6667	7683	731	-137	433	O
ATOM	666	CB ALA A	100	8.626	-4.747	9.579	1.00	35.47		C
ANISOU	666	CB ALA A	100	6348	1670	5460	-202	-994	-541	C
ATOM	667	N GLU A	101	10.773	-2.410	8.748	1.00	39.81		N
ANISOU	667	N GLU A	101	5052	3693	6383	-1753	-763	-1500	N
ATOM	668	CA GLU A	101	12.180	-2.050	8.480	1.00	40.92		C
ANISOU	668	CA GLU A	101	4876	2780	7891	-665	390	-2479	C
ATOM	669	C GLU A	101	12.339	-0.531	8.461	1.00	34.02		C

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ANISOU	669	C	GLU A 101	3629	2683	6613	-338	911	-1759	C
ATOM	670	O	GLU A 101	12.565	0.109	7.435	1.00	34.75		O
ANISOU	670	O	GLU A 101	3555	3799	5849	-1430	1652	-2515	O
ATOM	671	CB	GLU A 101	12.682	-2.671	7.177	1.00	50.60		C
ANISOU	671	CB	GLU A 101	6281	4198	8747	435	327	-3570	C
ATOM	672	CG	GLU A 101	13.225	-4.084	7.360	1.00	59.36		C
ANISOU	672	CG	GLU A 101	7862	4549	10143	1245	714	-3502	C
ATOM	673	CD	GLU A 101	13.659	-4.714	6.047	1.00	65.63		C
ANISOU	673	CD	GLU A 101	8379	5657	10902	2618	2325	-3008	C
ATOM	674	OE1	GLU A 101	13.791	-3.967	5.050	1.00	84.99		O
ANISOU	674	OE1	GLU A 101	10131	9413	12747	282	5568	-1281	O
ATOM	675	OE2	GLU A 101	13.873	-5.948	5.972	1.00	80.37		O
ANISOU	675	OE2	GLU A 101	10699	5850	13988	2550	1379	-5192	O
ATOM	676	N	ALA A 102	12.206	0.076	9.648	1.00	25.90		N
ANISOU	676	N	ALA A 102	3026	1260	5554	-581	513	-429	N
ATOM	677	CA	ALA A 102	12.103	1.531	9.738	1.00	20.21		C
ANISOU	677	CA	ALA A 102	2294	1203	4182	-653	526	34	C
ATOM	678	C	ALA A 102	13.424	2.202	9.378	1.00	19.14		C
ANISOU	678	C	ALA A 102	2076	1535	3662	-395	425	512	C
ATOM	679	O	ALA A 102	14.499	1.757	9.767	1.00	18.52		O
ANISOU	679	O	ALA A 102	2217	1324	3495	-279	294	120	O
ATOM	680	CB	ALA A 102	11.622	1.901	11.124	1.00	25.72		C
ANISOU	680	CB	ALA A 102	2778	2059	4933	-332	1525	-225	C
ATOM	681	N	ARG A 103	13.327	3.301	8.611	1.00	15.25		N
ANISOU	681	N	ARG A 103	2140	1588	2068	-448	334	-72	N
ATOM	682	CA	ARG A 103	14.464	4.111	8.237	1.00	13.88		C
ANISOU	682	CA	ARG A 103	2217	1306	1752	-387	356	-106	C
ATOM	683	C	ARG A 103	14.179	5.594	8.481	1.00	13.22		C
ANISOU	683	C	ARG A 103	1650	1455	1917	-237	25	-345	C
ATOM	684	O	ARG A 103	13.031	6.022	8.354	1.00	14.93		O
ANISOU	684	O	ARG A 103	1460	1777	2436	-336	192	-131	O
ATOM	685	CB	ARG A 103	14.812	3.942	6.749	1.00	18.38		C
ANISOU	685	CB	ARG A 103	3163	1827	1993	-392	863	-412	C
ATOM	686	CG	ARG A 103	15.189	2.500	6.389	1.00	24.20		C
ANISOU	686	CG	ARG A 103	4380	1910	2906	-677	391	-1285	C
ATOM	687	CD	ARG A 103	16.642	2.322	6.746	1.00	25.62		C
ANISOU	687	CD	ARG A 103	5094	1562	3079	604	-261	-253	C
ATOM	688	NE	ARG A 103	17.217	1.039	6.376	1.00	30.85		N
ANISOU	688	NE	ARG A 103	7186	1627	2911	1174	-13	-56	N
ATOM	689	CZ	ARG A 103	16.997	-0.103	7.019	1.00	35.74		C
ANISOU	689	CZ	ARG A 103	8545	1716	3317	1448	1231	18	C
ATOM	690	NH1	ARG A 103	16.185	-0.081	8.074	1.00	34.11		N
ANISOU	690	NH1	ARG A 103	4588	3313	5061	1354	857	697	N
ATOM	691	NH2	ARG A 103	17.574	-1.237	6.614	1.00	53.62		N
ANISOU	691	NH2	ARG A 103	16172	2191	2011	3568	2428	397	N
ATOM	692	N	ILE A 104	15.260	6.303	8.792	1.00	10.49		N
ANISOU	692	N	ILE A 104	1405	1161	1419	-34	55	-43	N
ATOM	693	CA	ILE A 104	15.217	7.744	8.685	1.00	10.54		C
ANISOU	693	CA	ILE A 104	1248	1193	1564	57	117	-96	C
ATOM	694	C	ILE A 104	16.267	8.144	7.662	1.00	9.46		C
ANISOU	694	C	ILE A 104	1255	738	1601	322	218	-124	C
ATOM	695	O	ILE A 104	17.453	7.921	7.858	1.00	11.22		O
ANISOU	695	O	ILE A 104	1291	1401	1572	439	202	156	O
ATOM	696	CB	ILE A 104	15.392	8.472	10.036	1.00	10.42		C
ANISOU	696	CB	ILE A 104	1017	1215	1726	336	240	-254	C
ATOM	697	CG1	ILE A 104	14.240	8.155	10.995	1.00	10.34		C

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ANISOU 697 CG1 ILE A 104	1042	1449	1439	42	29	-90	C
ATOM 698 CG2 ILE A 104	15.542	9.963	9.827	1.00	13.86		C
ANISOU 698 CG2 ILE A 104	1790	1244	2230	-132	583	-323	C
ATOM 699 CD1 ILE A 104	14.477	8.533	12.431	1.00	12.12		C
ANISOU 699 CD1 ILE A 104	1757	1465	1384	2	-120	103	C
ATOM 700 N ASN A 105	15.800	8.757	6.568	1.00	10.51		N
ANISOU 700 N ASN A 105	859	1572	1562	173	173	-32	N
ATOM 701 CA ASN A 105	16.664	9.142	5.453	1.00	10.58		C
ANISOU 701 CA ASN A 105	1430	1246	1343	-189	174	-303	C
ATOM 702 C ASN A 105	16.871	10.637	5.499	1.00	9.03		C
ANISOU 702 C ASN A 105	1069	1252	1112	30	-119	-232	C
ATOM 703 O ASN A 105	15.885	11.366	5.531	1.00	11.48		O
ANISOU 703 O ASN A 105	1109	1433	1818	107	75	50	O
ATOM 704 CB ASN A 105	16.044	8.753	4.111	1.00	12.48		C
ANISOU 704 CB ASN A 105	1654	1562	1526	-356	35	-503	C
ATOM 705 CG ASN A 105	15.823	7.252	4.067	1.00	14.79		C
ANISOU 705 CG ASN A 105	2063	1582	1976	-285	66	-779	C
ATOM 706 OD1 ASN A 105	16.742	6.483	4.318	1.00	21.55		O
ANISOU 706 OD1 ASN A 105	2369	1677	4143	-6	142	-541	O
ATOM 707 ND2 ASN A 105	14.598	6.861	3.777	1.00	20.92		N
ANISOU 707 ND2 ASN A 105	2713	1752	3485	-694	-976	-743	N
ATOM 708 N THR A 106	18.115	11.077	5.542	1.00	9.18		N
ANISOU 708 N THR A 106	1095	1237	1156	-49	-97	-50	N
ATOM 709 CA THR A 106	18.416	12.471	5.825	1.00	8.70		C
ANISOU 709 CA THR A 106	1188	1123	995	-33	-49	116	C
ATOM 710 C THR A 106	19.485	13.041	4.879	1.00	7.90		C
ANISOU 710 C THR A 106	803	1241	958	4	-159	-118	C
ATOM 711 O THR A 106	20.309	12.338	4.326	1.00	10.63		O
ANISOU 711 O THR A 106	1320	1375	1343	219	150	-90	O
ATOM 712 CB THR A 106	18.934	12.726	7.259	1.00	9.15		C
ANISOU 712 CB THR A 106	1060	1355	1063	-303	-176	157	C
ATOM 713 OG1 THR A 106	20.251	12.164	7.414	1.00	10.07		O
ANISOU 713 OG1 THR A 106	1257	1647	921	-22	-79	63	O
ATOM 714 CG2 THR A 106	18.040	12.104	8.306	1.00	10.43		C
ANISOU 714 CG2 THR A 106	1373	1478	1113	-101	58	290	C
ATOM 715 N GLN A 107	19.437	14.362	4.791	1.00	8.14		N
ANISOU 715 N GLN A 107	839	1220	1033	26	109	100	N
ATOM 716 CA GLN A 107	20.554	15.156	4.355	1.00	9.05		C
ANISOU 716 CA GLN A 107	1020	1538	879	-152	250	2	C
ATOM 717 C GLN A 107	20.925	16.070	5.520	1.00	8.25		C
ANISOU 717 C GLN A 107	1023	974	1139	161	85	15	C
ATOM 718 O GLN A 107	20.055	16.378	6.336	1.00	8.77		O
ANISOU 718 O GLN A 107	926	1258	1150	117	-31	-168	O
ATOM 719 CB GLN A 107	20.215	15.904	3.072	1.00	10.83		C
ANISOU 719 CB GLN A 107	1414	1445	1255	-492	-41	242	C
ATOM 720 CG GLN A 107	19.845	14.882	2.007	1.00	17.44		C
ANISOU 720 CG GLN A 107	2801	2507	1317	-659	-714	-104	C
ATOM 721 CD GLN A 107	19.553	15.442	0.656	1.00	15.82		C
ANISOU 721 CD GLN A 107	1523	2770	1718	-807	-858	426	C
ATOM 722 OE1 GLN A 107	18.407	15.719	0.281	1.00	20.75		O
ANISOU 722 OE1 GLN A 107	1693	3376	2814	-129	-1139	-467	O
ATOM 723 NE2 GLN A 107	20.640	15.566	-0.027	1.00	17.89		N
ANISOU 723 NE2 GLN A 107	1997	2878	1924	510	-181	444	N
ATOM 724 N TRP A 108	22.180	16.462	5.589	1.00	7.65		N
ANISOU 724 N TRP A 108	1147	1129	629	72	227	-90	N
ATOM 725 CA TRP A 108	22.625	17.260	6.726	1.00	8.02		C

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ANISOU 725 CA TRP A 108	1232	1180	636	91	110	-18	C
ATOM 726 C TRP A 108	23.556	18.369	6.274	1.00	9.00		C
ANISOU 726 C TRP A 108	1149	1354	919	-23	-5	48	C
ATOM 727 O TRP A 108	24.203	18.309	5.231	1.00	8.30		O
ANISOU 727 O TRP A 108	1018	1067	1067	-62	89	-22	O
ATOM 728 CB TRP A 108	23.274	16.402	7.833	1.00	8.66		C
ANISOU 728 CB TRP A 108	814	1539	936	88	9	185	C
ATOM 729 CG TRP A 108	24.377	15.480	7.430	1.00	7.76		C
ANISOU 729 CG TRP A 108	948	1241	760	-56	37	-72	C
ATOM 730 CD1 TRP A 108	24.303	14.108	7.256	1.00	9.57		C
ANISOU 730 CD1 TRP A 108	1471	1327	840	-223	365	-153	C
ATOM 731 CD2 TRP A 108	25.743	15.827	7.150	1.00	7.56		C
ANISOU 731 CD2 TRP A 108	1000	1112	760	100	185	243	C
ATOM 732 NE1 TRP A 108	25.544	13.590	6.881	1.00	9.47		N
ANISOU 732 NE1 TRP A 108	1426	1242	930	47	-67	-244	N
ATOM 733 CE2 TRP A 108	26.435	14.643	6.814	1.00	8.85		C
ANISOU 733 CE2 TRP A 108	894	1349	1122	237	-456	-245	C
ATOM 734 CE3 TRP A 108	26.447	17.048	7.160	1.00	8.15		C
ANISOU 734 CE3 TRP A 108	871	1224	1001	73	220	319	C
ATOM 735 CZ2 TRP A 108	27.783	14.670	6.492	1.00	9.26		C
ANISOU 735 CZ2 TRP A 108	1065	1391	1060	401	-165	122	C
ATOM 736 CZ3 TRP A 108	27.806	17.030	6.828	1.00	8.37		C
ANISOU 736 CZ3 TRP A 108	763	1417	999	167	26	106	C
ATOM 737 CH2 TRP A 108	28.470	15.866	6.498	1.00	9.20		C
ANISOU 737 CH2 TRP A 108	1090	1406	1001	322	105	182	C
ATOM 738 N LEU A 109	23.633	19.375	7.136	1.00	8.10		N
ANISOU 738 N LEU A 109	999	1267	812	-83	139	208	N
ATOM 739 CA LEU A 109	24.486	20.531	6.998	1.00	7.62		C
ANISOU 739 CA LEU A 109	938	1289	667	-100	169	301	C
ATOM 740 C LEU A 109	25.277	20.706	8.295	1.00	7.41		C
ANISOU 740 C LEU A 109	1009	1033	772	171	128	6	C
ATOM 741 O LEU A 109	24.641	20.842	9.330	1.00	8.74		O
ANISOU 741 O LEU A 109	903	1651	768	-27	34	-204	O
ATOM 742 CB LEU A 109	23.671	21.808	6.763	1.00	8.26		C
ANISOU 742 CB LEU A 109	1204	1234	700	-71	-74	129	C
ATOM 743 CG LEU A 109	22.871	21.890	5.456	1.00	8.07		C
ANISOU 743 CG LEU A 109	912	1316	839	53	-141	-126	C
ATOM 744 CD1 LEU A 109	21.929	23.070	5.434	1.00	9.94		C
ANISOU 744 CD1 LEU A 109	1143	1358	1276	183	-101	14	C
ATOM 745 CD2 LEU A 109	23.815	21.962	4.255	1.00	11.05		C
ANISOU 745 CD2 LEU A 109	1457	2062	681	197	-4	-138	C
ATOM 746 N LEU A 110	26.579	20.712	8.227	1.00	8.03		N
ANISOU 746 N LEU A 110	1006	1369	676	6	59	120	N
ATOM 747 CA LEU A 110	27.461	20.834	9.372	1.00	7.81		C
ANISOU 747 CA LEU A 110	1154	1253	560	14	64	190	C
ATOM 748 C LEU A 110	28.179	22.175	9.192	1.00	7.92		C
ANISOU 748 C LEU A 110	1267	1257	486	-78	60	122	C
ATOM 749 O LEU A 110	29.014	22.320	8.298	1.00	10.01		O
ANISOU 749 O LEU A 110	1607	1510	685	-224	298	145	O
ATOM 750 CB LEU A 110	28.445	19.738	9.421	1.00	9.02		C
ANISOU 750 CB LEU A 110	1219	1287	920	139	15	220	C
ATOM 751 CG LEU A 110	29.678	19.772	10.303	1.00	11.38		C
ANISOU 751 CG LEU A 110	1550	1419	1353	204	-407	11	C
ATOM 752 CD1 LEU A 110	29.443	20.235	11.711	1.00	15.79		C
ANISOU 752 CD1 LEU A 110	1395	3134	1473	465	-366	-382	C
ATOM 753 CD2 LEU A 110	30.310	18.380	10.327	1.00	15.67		C

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ANISOU	753	CD2 LEU A 110	1860	1926	2168	834	-345	303	C
ATOM	754	N THR A 111	27.808	23.146	10.001	1.00	8.79		N
ANISOU	754	N THR A 111	1151	1503	686	-190	-29	-145	N
ATOM	755	CA THR A 111	28.431	24.461	9.953	1.00	8.12		C
ANISOU	755	CA THR A 111	842	1506	736	-100	73	-263	C
ATOM	756	C THR A 111	29.388	24.583	11.124	1.00	7.93		C
ANISOU	756	C THR A 111	1012	1348	654	-195	84	-52	C
ATOM	757	O THR A 111	29.018	24.383	12.285	1.00	8.67		O
ANISOU	757	O THR A 111	1309	1261	723	-176	105	90	O
ATOM	758	CB THR A 111	27.413	25.607	10.011	1.00	8.39		C
ANISOU	758	CB THR A 111	1317	1523	350	67	145	-159	C
ATOM	759	OG1 THR A 111	26.488	25.496	8.929	1.00	10.39		O
ANISOU	759	OG1 THR A 111	1443	1422	1083	100	-293	24	O
ATOM	760	CG2 THR A 111	28.146	26.920	9.886	1.00	11.37		C
ANISOU	760	CG2 THR A 111	1248	1566	1505	-50	65	-54	C
ATOM	761	N SER A 112	30.622	24.920	10.803	1.00	8.65		N
ANISOU	761	N SER A 112	810	1762	713	36	-62	40	N
ATOM	762	CA SER A 112	31.594	25.303	11.789	1.00	9.53		C
ANISOU	762	CA SER A 112	1021	1769	832	-68	-142	-53	C
ATOM	763	C SER A 112	31.643	26.801	11.963	1.00	10.83		C
ANISOU	763	C SER A 112	1261	1787	1066	-129	-218	19	C
ATOM	764	O SER A 112	31.523	27.564	11.017	1.00	11.62		O
ANISOU	764	O SER A 112	1532	1785	1099	-454	-423	75	O
ATOM	765	CB SER A 112	32.976	24.806	11.353	1.00	11.53		C
ANISOU	765	CB SER A 112	905	2125	1352	82	-247	130	C
ATOM	766	OG SER A 112	33.063	23.406	11.293	1.00	12.73		O
ANISOU	766	OG SER A 112	1005	2097	1736	180	-158	87	O
ATOM	767	N GLY A 113	31.866	27.219	13.211	1.00	10.44		N
ANISOU	767	N GLY A 113	1518	1483	964	-259	10	70	N
ATOM	768	CA GLY A 113	32.158	28.617	13.421	1.00	12.01		C
ANISOU	768	CA GLY A 113	1615	1606	1343	-468	322	-48	C
ATOM	769	C GLY A 113	33.528	28.867	12.803	1.00	11.18		C
ANISOU	769	C GLY A 113	1730	1913	605	-605	294	-73	C
ATOM	770	O GLY A 113	34.519	28.192	12.953	1.00	18.67		O
ANISOU	770	O GLY A 113	1686	2366	3042	-299	506	-37	O
ATOM	771	N THR A 114	33.729	29.853	12.010	1.00	15.71		N
ANISOU	771	N THR A 114	2377	2531	1060	-1250	10	239	N
ATOM	772	CA THR A 114	34.693	30.541	11.288	1.00	10.79		C
ANISOU	772	CA THR A 114	1477	1576	1048	-67	159	459	C
ATOM	773	C THR A 114	34.722	32.068	11.456	1.00	11.88		C
ANISOU	773	C THR A 114	1212	1704	1600	-216	-170	97	C
ATOM	774	O THR A 114	33.799	32.771	11.809	1.00	12.22		O
ANISOU	774	O THR A 114	1541	1616	1484	-236	179	-13	O
ATOM	775	CB THR A 114	34.546	30.307	9.757	1.00	11.99		C
ANISOU	775	CB THR A 114	1314	2095	1145	-213	47	117	C
ATOM	776	OG1 THR A 114	33.516	31.084	9.167	1.00	12.29		O
ANISOU	776	OG1 THR A 114	1225	2199	1244	-249	-164	-70	O
ATOM	777	CG2 THR A 114	34.195	28.851	9.468	1.00	14.68		C
ANISOU	777	CG2 THR A 114	1792	2135	1651	-366	-435	87	C
ATOM	778	N THR A 115	35.914	32.565	11.093	1.00	13.00		N
ANISOU	778	N THR A 115	1269	2018	1652	-538	-164	-516	N
ATOM	779	CA THR A 115	36.033	33.989	10.876	1.00	14.11		C
ANISOU	779	CA THR A 115	1783	2035	1543	-817	266	-565	C
ATOM	780	C THR A 115	35.239	34.373	9.640	1.00	13.73		C
ANISOU	780	C THR A 115	2168	1673	1377	-452	489	-525	C
ATOM	781	O THR A 115	34.848	33.538	8.807	1.00	12.57		O

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ANISOU	781	O	THR A 115	1626	1588	1563	-337	100	-287	O
ATOM	782	CB	THR A 115	37.505	34.387	10.745	1.00	15.54		C
ANISOU	782	CB	THR A 115	1658	2045	2202	-425	821	-67	C
ATOM	783	OG1	THR A 115	37.946	33.795	9.525	1.00	17.90		O
ANISOU	783	OG1	THR A 115	2131	2625	2044	-806	658	-260	O
ATOM	784	CG2	THR A 115	38.374	33.818	11.857	1.00	19.03		C
ANISOU	784	CG2	THR A 115	1625	3438	2168	-1033	288	-105	C
ATOM	785	N	GLU A 116	34.978	35.669	9.480	1.00	17.17		N
ANISOU	785	N	GLU A 116	3084	1609	1830	-535	646	-366	N
ATOM	786	CA	GLU A 116	34.248	36.090	8.268	1.00	18.07		C
ANISOU	786	CA	GLU A 116	2740	1679	2448	-247	500	-120	C
ATOM	787	C	GLU A 116	34.977	35.718	6.978	1.00	17.11		C
ANISOU	787	C	GLU A 116	2461	2187	1854	-711	151	78	C
ATOM	788	O	GLU A 116	34.347	35.317	5.992	1.00	18.07		O
ANISOU	788	O	GLU A 116	2428	2191	2245	-497	-235	-6	O
ATOM	789	CB	GLU A 116	33.914	37.603	8.361	1.00	22.65		C
ANISOU	789	CB	GLU A 116	3560	1513	3534	-510	650	124	C
ATOM	790	CG	GLU A 116	32.900	37.839	9.495	1.00	38.39		C
ANISOU	790	CG	GLU A 116	5559	4098	4929	1435	1672	-1182	C
ATOM	791	CD	GLU A 116	32.626	39.302	9.725	1.00	42.78		C
ANISOU	791	CD	GLU A 116	7284	3517	5455	53	3180	-777	C
ATOM	792	OE1	GLU A 116	33.106	40.111	8.902	1.00	62.63		O
ANISOU	792	OE1	GLU A 116	12268	4985	6542	-2572	4716	-1115	O
ATOM	793	OE2	GLU A 116	31.960	39.630	10.716	1.00	45.79		O
ANISOU	793	OE2	GLU A 116	6450	3021	7927	697	4498	-695	O
ATOM	794	N	ALA A 117	36.307	35.852	6.985	1.00	17.06		N
ANISOU	794	N	ALA A 117	2564	2423	1495	-1105	212	-314	N
ATOM	795	CA	ALA A 117	37.111	35.587	5.812	1.00	16.40		C
ANISOU	795	CA	ALA A 117	2508	2255	1469	-1145	143	-222	C
ATOM	796	C	ALA A 117	36.985	34.121	5.396	1.00	16.01		C
ANISOU	796	C	ALA A 117	2761	2285	1037	-1008	-144	-192	C
ATOM	797	O	ALA A 117	37.130	33.797	4.238	1.00	20.70		O
ANISOU	797	O	ALA A 117	3632	3019	1212	-1707	440	-543	O
ATOM	798	CB	ALA A 117	38.562	35.952	6.026	1.00	20.85		C
ANISOU	798	CB	ALA A 117	2665	3445	1812	-1844	337	-151	C
ATOM	799	N	ASN A 118	36.703	33.254	6.340	1.00	14.73		N
ANISOU	799	N	ASN A 118	2072	2176	1348	-929	269	-168	N
ATOM	800	CA	ASN A 118	36.648	31.828	6.089	1.00	13.56		C
ANISOU	800	CA	ASN A 118	1255	2136	1759	-428	302	-220	C
ATOM	801	C	ASN A 118	35.216	31.285	6.032	1.00	11.13		C
ANISOU	801	C	ASN A 118	1182	1801	1245	-291	73	-315	C
ATOM	802	O	ASN A 118	35.020	30.071	5.939	1.00	11.62		O
ANISOU	802	O	ASN A 118	1306	1760	1348	-179	-58	-397	O
ATOM	803	CB	ASN A 118	37.433	31.085	7.168	1.00	13.11		C
ANISOU	803	CB	ASN A 118	1085	2201	1697	-598	-50	-562	C
ATOM	804	CG	ASN A 118	38.912	31.271	7.058	1.00	15.11		C
ANISOU	804	CG	ASN A 118	1203	2802	1738	-892	41	-157	C
ATOM	805	OD1	ASN A 118	39.440	31.459	5.975	1.00	17.31		O
ANISOU	805	OD1	ASN A 118	1438	3206	1935	-492	338	-222	O
ATOM	806	ND2	ASN A 118	39.603	31.235	8.208	1.00	18.51		N
ANISOU	806	ND2	ASN A 118	1095	3923	2013	-487	-138	-284	N
ATOM	807	N	ALA A 119	34.222	32.156	6.059	1.00	11.14		N
ANISOU	807	N	ALA A 119	1320	1664	1249	-254	-1	58	N
ATOM	808	CA	ALA A 119	32.816	31.706	6.073	1.00	10.84		C
ANISOU	808	CA	ALA A 119	1244	1616	1260	-180	141	-179	C
ATOM	809	C	ALA A 119	32.472	30.905	4.836	1.00	10.80		C

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ANISOU	809	C	ALA	A	119	1355	1529	1218	-226	264	-230	C
ATOM	810	O	ALA	A	119	31.590	30.017	4.868	1.00	10.23		O
ANISOU	810	O	ALA	A	119	1207	1763	916	-250	-148	199	O
ATOM	811	CB	ALA	A	119	31.845	32.882	6.264	1.00	14.27		C
ANISOU	811	CB	ALA	A	119	1633	2127	1662	179	270	-674	C
ATOM	812	N	TRP	A	120	33.154	31.166	3.704	1.00	9.80		N
ANISOU	812	N	TRP	A	120	1174	1400	1149	-212	-35	63	N
ATOM	813	CA	TRP	A	120	32.818	30.430	2.494	1.00	10.49		C
ANISOU	813	CA	TRP	A	120	1222	1733	1030	-156	118	-16	C
ATOM	814	C	TRP	A	120	33.028	28.932	2.684	1.00	10.07		C
ANISOU	814	C	TRP	A	120	1464	1627	736	-384	241	-68	C
ATOM	815	O	TRP	A	120	32.394	28.128	1.993	1.00	12.47		O
ANISOU	815	O	TRP	A	120	1697	1937	1105	-561	116	-172	O
ATOM	816	CB	TRP	A	120	33.593	30.984	1.306	1.00	11.49		C
ANISOU	816	CB	TRP	A	120	1431	1909	1026	-113	-118	474	C
ATOM	817	CG	TRP	A	120	35.060	30.728	1.434	1.00	11.28		C
ANISOU	817	CG	TRP	A	120	1285	1979	1023	-246	136	8	C
ATOM	818	CD1	TRP	A	120	35.978	31.509	2.064	1.00	12.56		C
ANISOU	818	CD1	TRP	A	120	1276	2048	1450	-492	463	-200	C
ATOM	819	CD2	TRP	A	120	35.737	29.578	0.913	1.00	10.16		C
ANISOU	819	CD2	TRP	A	120	1461	1672	726	-242	51	311	C
ATOM	820	NE1	TRP	A	120	37.217	30.916	1.962	1.00	11.77		N
ANISOU	820	NE1	TRP	A	120	1308	2112	1053	-346	136	111	N
ATOM	821	CE2	TRP	A	120	37.086	29.738	1.264	1.00	12.20		C
ANISOU	821	CE2	TRP	A	120	1372	2224	1038	-101	188	21	C
ATOM	822	CE3	TRP	A	120	35.370	28.443	0.193	1.00	12.82		C
ANISOU	822	CE3	TRP	A	120	1937	1878	1055	-40	-193	70	C
ATOM	823	CZ2	TRP	A	120	38.032	28.792	0.911	1.00	13.36		C
ANISOU	823	CZ2	TRP	A	120	1674	2362	1040	112	292	181	C
ATOM	824	CZ3	TRP	A	120	36.324	27.496	-0.163	1.00	13.25		C
ANISOU	824	CZ3	TRP	A	120	2155	1759	1123	-87	315	247	C
ATOM	825	CH2	TRP	A	120	37.654	27.683	0.197	1.00	14.11		C
ANISOU	825	CH2	TRP	A	120	2019	2129	1214	86	459	218	C
ATOM	826	N	LYS	A	121	33.921	28.567	3.597	1.00	10.11		N
ANISOU	826	N	LYS	A	121	1435	1455	954	-115	190	-214	N
ATOM	827	CA	LYS	A	121	34.199	27.166	3.785	1.00	10.80		C
ANISOU	827	CA	LYS	A	121	1379	1320	1405	-448	182	-139	C
ATOM	828	C	LYS	A	121	33.696	26.664	5.128	1.00	10.07		C
ANISOU	828	C	LYS	A	121	1526	1386	915	51	-222	-223	C
ATOM	829	O	LYS	A	121	34.218	25.696	5.687	1.00	12.55		O
ANISOU	829	O	LYS	A	121	1539	1632	1598	232	-61	103	O
ATOM	830	CB	LYS	A	121	35.681	26.864	3.604	1.00	12.70		C
ANISOU	830	CB	LYS	A	121	1413	1658	1755	-53	-32	237	C
ATOM	831	CG	LYS	A	121	36.638	27.667	4.455	1.00	13.41		C
ANISOU	831	CG	LYS	A	121	1271	2407	1419	-28	-125	331	C
ATOM	832	CD	LYS	A	121	38.103	27.284	4.269	1.00	14.52		C
ANISOU	832	CD	LYS	A	121	1318	2577	1621	129	-160	706	C
ATOM	833	CE	LYS	A	121	38.995	28.229	5.079	1.00	19.87		C
ANISOU	833	CE	LYS	A	121	1322	3844	2383	-109	-283	-51	C
ATOM	834	NZ	LYS	A	121	40.394	27.708	5.128	1.00	22.79		N
ANISOU	834	NZ	LYS	A	121	1207	4181	3270	-134	102	-1057	N
ATOM	835	N	SER	A	122	32.636	27.280	5.636	1.00	9.71		N
ANISOU	835	N	SER	A	122	1346	1500	842	73	-208	122	N
ATOM	836	CA	SER	A	122	32.106	26.874	6.910	1.00	9.20		C
ANISOU	836	CA	SER	A	122	1394	1494	609	-10	-396	-27	C
ATOM	837	C	SER	A	122	31.219	25.640	6.920	1.00	10.07		C

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ANISOU 837 C SER A 122	1301	1637	888	-88	-286	92	C
ATOM 838 O SER A 122	31.024	25.071	7.989	1.00	10.44		O
ANISOU 838 O SER A 122	1279	1927	762	-233	-155	-7	O
ATOM 839 CB SER A 122	31.226	28.002	7.474	1.00	11.83		C
ANISOU 839 CB SER A 122	1968	1560	967	212	111	218	C
ATOM 840 OG SER A 122	30.102	28.182	6.640	1.00	11.76		O
ANISOU 840 OG SER A 122	1751	1508	1209	409	227	184	O
ATOM 841 N THR A 123	30.667	25.234	5.773	1.00	8.46		N
ANISOU 841 N THR A 123	1064	1342	807	-47	-20	-15	N
ATOM 842 CA THR A 123	29.579	24.286	5.861	1.00	8.52		C
ANISOU 842 CA THR A 123	1056	1315	864	-20	-21	114	C
ATOM 843 C THR A 123	29.824	23.066	4.984	1.00	7.95		C
ANISOU 843 C THR A 123	948	1270	802	-30	-18	165	C
ATOM 844 O THR A 123	30.004	23.230	3.769	1.00	9.90		O
ANISOU 844 O THR A 123	1675	1372	716	-1	-116	201	O
ATOM 845 CB THR A 123	28.240	24.971	5.442	1.00	9.02		C
ANISOU 845 CB THR A 123	1114	1162	1152	-29	-57	168	C
ATOM 846 OG1 THR A 123	28.028	26.196	6.151	1.00	10.60		O
ANISOU 846 OG1 THR A 123	1411	1239	1378	1	123	-28	O
ATOM 847 CG2 THR A 123	27.047	24.073	5.740	1.00	8.96		C
ANISOU 847 CG2 THR A 123	1107	1656	642	-262	-117	42	C
ATOM 848 N LEU A 124	29.763	21.902	5.606	1.00	7.99		N
ANISOU 848 N LEU A 124	1322	1275	438	-231	203	-3	N
ATOM 849 CA LEU A 124	29.794	20.613	4.947	1.00	8.69		C
ANISOU 849 CA LEU A 124	1227	1285	791	-29	-35	-96	C
ATOM 850 C LEU A 124	28.356	20.114	4.730	1.00	8.56		C
ANISOU 850 C LEU A 124	1216	1316	720	-68	-6	-110	C
ATOM 851 O LEU A 124	27.473	20.437	5.548	1.00	8.71		O
ANISOU 851 O LEU A 124	1368	1272	668	-152	142	-99	O
ATOM 852 CB LEU A 124	30.584	19.578	5.741	1.00	8.99		C
ANISOU 852 CB LEU A 124	1205	1499	710	95	96	-74	C
ATOM 853 CG LEU A 124	32.082	19.831	5.867	1.00	9.19		C
ANISOU 853 CG LEU A 124	1252	1297	944	99	-71	-102	C
ATOM 854 CD1 LEU A 124	32.641	18.999	6.986	1.00	13.99		C
ANISOU 854 CD1 LEU A 124	1725	2288	1303	556	-157	346	C
ATOM 855 CD2 LEU A 124	32.814	19.503	4.584	1.00	11.22		C
ANISOU 855 CD2 LEU A 124	1101	1986	1176	213	130	-53	C
ATOM 856 N VAL A 125	28.173	19.343	3.654	1.00	9.37		N
ANISOU 856 N VAL A 125	1107	1656	797	-79	94	-279	N
ATOM 857 CA VAL A 125	26.883	18.762	3.333	1.00	8.06		C
ANISOU 857 CA VAL A 125	1071	1196	794	49	69	-255	C
ATOM 858 C VAL A 125	27.102	17.262	3.113	1.00	8.35		C
ANISOU 858 C VAL A 125	1144	1151	876	191	291	-6	C
ATOM 859 O VAL A 125	28.082	16.819	2.552	1.00	9.41		O
ANISOU 859 O VAL A 125	1048	1456	1072	216	185	-160	O
ATOM 860 CB VAL A 125	26.180	19.379	2.116	1.00	8.99		C
ANISOU 860 CB VAL A 125	1116	1195	1105	176	-4	-45	C
ATOM 861 CG1 VAL A 125	27.010	19.224	0.834	1.00	10.49		C
ANISOU 861 CG1 VAL A 125	1523	1614	849	-132	-3	-100	C
ATOM 862 CG2 VAL A 125	24.769	18.812	1.942	1.00	10.90		C
ANISOU 862 CG2 VAL A 125	1460	1821	859	-359	-240	321	C
ATOM 863 N GLY A 126	26.132	16.497	3.600	1.00	8.39		N
ANISOU 863 N GLY A 126	1191	1259	739	-11	121	-71	N
ATOM 864 CA GLY A 126	26.148	15.058	3.393	1.00	8.41		C
ANISOU 864 CA GLY A 126	1052	1266	878	28	25	-126	C
ATOM 865 C GLY A 126	24.784	14.439	3.579	1.00	7.92		C

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ANISOU	865	C	GLY A 126	986	1247	776	58	-229	-18	C
ATOM	866	O	GLY A 126	23.770	15.106	3.632	1.00	8.68		O
ANISOU	866	O	GLY A 126	1052	1264	983	42	91	-49	O
ATOM	867	N	HIS A 127	24.790	13.108	3.621	1.00	9.59		N
ANISOU	867	N	HIS A 127	1105	1232	1305	30	-47	-139	N
ATOM	868	CA	HIS A 127	23.570	12.367	3.792	1.00	9.16		C
ANISOU	868	CA	HIS A 127	1291	1299	889	-73	231	-212	C
ATOM	869	C	HIS A 127	23.813	11.135	4.655	1.00	11.09		C
ANISOU	869	C	HIS A 127	1404	1511	1298	62	173	64	C
ATOM	870	O	HIS A 127	24.806	10.446	4.464	1.00	11.45		O
ANISOU	870	O	HIS A 127	1475	1617	1259	128	244	-21	O
ATOM	871	CB	HIS A 127	22.984	11.966	2.419	1.00	10.92		C
ANISOU	871	CB	HIS A 127	1753	1479	919	-605	163	-150	C
ATOM	872	CG	HIS A 127	23.995	11.380	1.505	1.00	11.55		C
ANISOU	872	CG	HIS A 127	1933	1938	519	92	-189	-104	C
ATOM	873	ND1	HIS A 127	24.168	10.034	1.388	1.00	16.36		N
ANISOU	873	ND1	HIS A 127	2582	1999	1634	247	-119	-256	N
ATOM	874	CD2	HIS A 127	24.905	11.947	0.677	1.00	13.45		C
ANISOU	874	CD2	HIS A 127	2150	2390	570	330	192	-87	C
ATOM	875	CE1	HIS A 127	25.140	9.782	0.510	1.00	17.34		C
ANISOU	875	CE1	HIS A 127	2695	2554	1340	1005	-413	-300	C
ATOM	876	NE2	HIS A 127	25.613	10.928	0.061	1.00	16.28		N
ANISOU	876	NE2	HIS A 127	1953	2975	1256	718	-41	-404	N
ATOM	877	N	ASP A 128	22.861	10.946	5.569	1.00	8.82		N
ANISOU	877	N	ASP A 128	1194	925	1234	69	64	40	N
ATOM	878	CA	ASP A 128	22.912	9.821	6.470	1.00	10.08		C
ANISOU	878	CA	ASP A 128	1791	731	1307	-33	-21	-89	C
ATOM	879	C	ASP A 128	21.633	9.015	6.386	1.00	10.84		C
ANISOU	879	C	ASP A 128	1831	989	1298	-196	-184	224	C
ATOM	880	O	ASP A 128	20.554	9.609	6.324	1.00	11.02		O
ANISOU	880	O	ASP A 128	1815	1120	1254	-188	29	-94	O
ATOM	881	CB	ASP A 128	23.098	10.233	7.930	1.00	9.70		C
ANISOU	881	CB	ASP A 128	1255	1263	1169	-10	165	-76	C
ATOM	882	CG	ASP A 128	24.459	10.800	8.295	1.00	9.07		C
ANISOU	882	CG	ASP A 128	1195	1121	1132	197	20	90	C
ATOM	883	OD1	ASP A 128	25.419	10.688	7.511	1.00	10.55		O
ANISOU	883	OD1	ASP A 128	1294	1497	1218	-115	195	231	O
ATOM	884	OD2	ASP A 128	24.568	11.364	9.398	1.00	9.54		O
ANISOU	884	OD2	ASP A 128	1540	1003	1081	42	-35	100	O
ATOM	885	N	THR A 129	21.783	7.692	6.410	1.00	11.66		N
ANISOU	885	N	THR A 129	1622	1019	1789	-279	334	-263	N
ATOM	886	CA	THR A 129	20.642	6.808	6.508	1.00	12.32		C
ANISOU	886	CA	THR A 129	1806	1119	1756	-420	199	-64	C
ATOM	887	C	THR A 129	20.662	6.127	7.866	1.00	12.26		C
ANISOU	887	C	THR A 129	1791	1015	1852	-35	379	-12	C
ATOM	888	O	THR A 129	21.664	5.499	8.214	1.00	13.82		O
ANISOU	888	O	THR A 129	1783	1317	2152	39	446	164	O
ATOM	889	CB	THR A 129	20.652	5.744	5.391	1.00	16.06		C
ANISOU	889	CB	THR A 129	2904	1230	1968	-914	379	-270	C
ATOM	890	OG1	THR A 129	20.812	6.334	4.136	1.00	27.77		O
ANISOU	890	OG1	THR A 129	5721	3058	1771	-2233	428	-265	O
ATOM	891	CG2	THR A 129	19.287	5.066	5.299	1.00	18.50		C
ANISOU	891	CG2	THR A 129	2635	2263	2131	-826	454	-1117	C
ATOM	892	N	PHE A 130	19.585	6.259	8.620	1.00	11.40		N
ANISOU	892	N	PHE A 130	1572	1212	1550	-108	85	-92	N
ATOM	893	CA	PHE A 130	19.487	5.636	9.941	1.00	12.30		C

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ANISOU	893	CA	PHE	A	130	1844	1110	1718	-72	333	-17	C
ATOM	894	C	PHE	A	130	18.547	4.434	9.902	1.00	11.05		C
ANISOU	894	C	PHE	A	130	1322	890	1985	330	407	-32	C
ATOM	895	O	PHE	A	130	17.472	4.481	9.334	1.00	13.47		O
ANISOU	895	O	PHE	A	130	1209	1346	2563	208	329	338	O
ATOM	896	CB	PHE	A	130	18.972	6.678	10.912	1.00	11.75		C
ANISOU	896	CB	PHE	A	130	1866	1145	1453	8	124	4	C
ATOM	897	CG	PHE	A	130	19.900	7.838	11.166	1.00	9.78		C
ANISOU	897	CG	PHE	A	130	1391	1049	1274	279	96	146	C
ATOM	898	CD1	PHE	A	130	19.825	8.952	10.374	1.00	10.27		C
ANISOU	898	CD1	PHE	A	130	1805	998	1098	99	-338	7	C
ATOM	899	CD2	PHE	A	130	20.823	7.802	12.203	1.00	11.36		C
ANISOU	899	CD2	PHE	A	130	1874	987	1457	87	-213	401	C
ATOM	900	CE1	PHE	A	130	20.663	10.045	10.577	1.00	9.22		C
ANISOU	900	CE1	PHE	A	130	1484	963	1057	223	-109	-51	C
ATOM	901	CE2	PHE	A	130	21.673	8.865	12.393	1.00	10.87		C
ANISOU	901	CE2	PHE	A	130	1719	999	1411	140	-128	270	C
ATOM	902	CZ	PHE	A	130	21.579	9.961	11.578	1.00	9.51		C
ANISOU	902	CZ	PHE	A	130	1654	990	972	-62	-159	64	C
ATOM	903	N	THR	A	131	19.011	3.378	10.544	1.00	13.21		N
ANISOU	903	N	THR	A	131	1672	1026	2319	228	236	223	N
ATOM	904	CA	THR	A	131	18.302	2.119	10.697	1.00	12.87		C
ANISOU	904	CA	THR	A	131	2030	981	1878	69	340	-30	C
ATOM	905	C	THR	A	131	17.922	1.980	12.158	1.00	12.46		C
ANISOU	905	C	THR	A	131	1703	1156	1874	-115	361	-300	C
ATOM	906	O	THR	A	131	18.764	2.185	13.029	1.00	13.00		O
ANISOU	906	O	THR	A	131	1814	1181	1943	-71	241	-202	O
ATOM	907	CB	THR	A	131	19.215	0.973	10.220	1.00	14.22		C
ANISOU	907	CB	THR	A	131	2067	1080	2254	-112	830	-225	C
ATOM	908	OG1	THR	A	131	19.449	1.108	8.818	1.00	17.28		O
ANISOU	908	OG1	THR	A	131	2951	1286	2328	-269	1123	-147	O
ATOM	909	CG2	THR	A	131	18.550	-0.369	10.460	1.00	14.35		C
ANISOU	909	CG2	THR	A	131	2306	971	2176	47	650	50	C
ATOM	910	N	LYS	A	132	16.653	1.636	12.411	1.00	13.32		N
ANISOU	910	N	LYS	A	132	1645	1201	2216	32	318	-25	N
ATOM	911	CA	LYS	A	132	16.203	1.510	13.775	1.00	13.59		C
ANISOU	911	CA	LYS	A	132	1564	1211	2389	-60	466	43	C
ATOM	912	C	LYS	A	132	16.632	0.149	14.348	1.00	12.82		C
ANISOU	912	C	LYS	A	132	1637	1162	2073	76	361	-179	C
ATOM	913	O	LYS	A	132	16.570	-0.904	13.726	1.00	14.37		O
ANISOU	913	O	LYS	A	132	2024	1210	2226	103	78	-203	O
ATOM	914	CB	LYS	A	132	14.682	1.661	13.868	1.00	14.26		C
ANISOU	914	CB	LYS	A	132	1541	1789	2086	107	188	129	C
ATOM	915	CG	LYS	A	132	14.194	1.817	15.297	1.00	15.32		C
ANISOU	915	CG	LYS	A	132	1786	1639	2396	188	480	-420	C
ATOM	916	CD	LYS	A	132	12.684	1.995	15.225	1.00	16.42		C
ANISOU	916	CD	LYS	A	132	1782	1761	2697	161	500	-310	C
ATOM	917	CE	LYS	A	132	12.215	2.484	16.563	1.00	19.36		C
ANISOU	917	CE	LYS	A	132	2202	2887	2268	1049	679	489	C
ATOM	918	NZ	LYS	A	132	10.753	2.591	16.602	1.00	22.30		N
ANISOU	918	NZ	LYS	A	132	2191	3408	2876	909	1018	940	N
ATOM	919	N	VAL	A	133	17.108	0.161	15.577	1.00	12.83		N
ANISOU	919	N	VAL	A	133	1607	1328	1939	20	568	-219	N
ATOM	920	CA	VAL	A	133	17.512	-1.090	16.178	1.00	15.76		C
ANISOU	920	CA	VAL	A	133	2270	1670	2049	221	563	137	C
ATOM	921	C	VAL	A	133	16.351	-1.452	17.091	1.00	27.71		C

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ANISOU	921	C	VAL A 133	3707	1915	4904	163	2332	975	C
ATOM	922	O	VAL A 133	15.812	-0.615	17.820	1.00	30.02		O
ANISOU	922	O	VAL A 133	4275	3065	4065	-49	2934	801	O
ATOM	923	CB	VAL A 133	18.941	-1.013	16.707	1.00	22.02		C
ANISOU	923	CB	VAL A 133	2990	2507	2870	-244	-540	1152	C
ATOM	924	CG1	VAL A 133	19.868	-1.126	15.467	1.00	28.46		C
ANISOU	924	CG1	VAL A 133	1687	5377	3751	31	-183	2789	C
ATOM	925	CG2	VAL A 133	19.339	0.244	17.421	1.00	34.99		C
ANISOU	925	CG2	VAL A 133	6175	2664	4456	-1452	-2763	1585	C
ATOM	926	N	LYS A 134	15.934	-2.709	16.900	1.00	40.30		N
ANISOU	926	N	LYS A 134	5780	1539	7994	-195	3074	1681	N
ATOM	927	CA	LYS A 134	14.589	-3.061	17.369	1.00	46.82		C
ANISOU	927	CA	LYS A 134	6243	1762	9785	-680	3495	2587	C
ATOM	928	C	LYS A 134	13.555	-2.011	16.967	1.00	53.30		C
ANISOU	928	C	LYS A 134	6247	3081	10923	727	3313	732	C
ATOM	929	O	LYS A 134	13.238	-1.002	17.621	1.00	66.03		O
ANISOU	929	O	LYS A 134	7726	6876	10485	3192	1406	-1577	O
ATOM	930	CB	LYS A 134	14.642	-3.356	18.869	1.00	54.20		C
ANISOU	930	CB	LYS A 134	8362	2776	9457	-1089	4566	2109	C
ATOM	931	CG	LYS A 134	14.457	-2.246	19.879	1.00	59.86		C
ANISOU	931	CG	LYS A 134	8439	3507	10799	-2265	4344	807	C
ATOM	932	CD	LYS A 134	12.984	-2.075	20.211	1.00	61.71		C
ANISOU	932	CD	LYS A 134	8587	3449	11413	-2550	4716	-1005	C
ATOM	933	CE	LYS A 134	12.757	-1.048	21.290	1.00	66.19		C
ANISOU	933	CE	LYS A 134	9239	3310	12599	-2633	4014	-1755	C
ATOM	934	NZ	LYS A 134	13.117	0.338	20.811	1.00	80.88		N
ANISOU	934	NZ	LYS A 134	12146	3508	15078	-3471	3550	-1270	N
TER	935		LYS A 134							
ATOM	936	N	GLY B 16	23.067	39.620	21.522	1.00	27.91		N
ANISOU	936	N	GLY B 16	3243	2924	4437	-1721	-508	-1	N
ATOM	937	CA	GLY B 16	23.159	38.171	21.507	1.00	21.40		C
ANISOU	937	CA	GLY B 16	1791	2879	3462	-1656	-781	707	C
ATOM	938	C	GLY B 16	22.239	37.503	20.501	1.00	16.39		C
ANISOU	938	C	GLY B 16	1773	2255	2198	-624	-247	338	C
ATOM	939	O	GLY B 16	21.600	38.118	19.661	1.00	17.97		O
ANISOU	939	O	GLY B 16	2691	2011	2127	167	-440	-290	O
ATOM	940	N	ILE B 17	22.154	36.178	20.586	1.00	15.23		N
ANISOU	940	N	ILE B 17	1690	2132	1964	-434	-7	150	N
ATOM	941	CA	ILE B 17	21.256	35.446	19.688	1.00	13.96		C
ANISOU	941	CA	ILE B 17	1675	1936	1692	-90	9	119	C
ATOM	942	C	ILE B 17	19.797	35.654	20.065	1.00	12.21		C
ANISOU	942	C	ILE B 17	1689	1670	1281	-127	-178	-86	C
ATOM	943	O	ILE B 17	18.884	35.690	19.229	1.00	13.18		O
ANISOU	943	O	ILE B 17	1818	1972	1219	91	-255	35	O
ATOM	944	CB	ILE B 17	21.625	33.943	19.672	1.00	13.67		C
ANISOU	944	CB	ILE B 17	1491	1904	1800	-156	64	220	C
ATOM	945	CG1	ILE B 17	22.977	33.653	19.015	1.00	14.83		C
ANISOU	945	CG1	ILE B 17	1805	1797	2031	47	380	636	C
ATOM	946	CG2	ILE B 17	20.536	33.106	19.033	1.00	17.14		C
ANISOU	946	CG2	ILE B 17	1914	2608	1988	-219	237	-1017	C
ATOM	947	CD1	ILE B 17	23.596	32.302	19.287	1.00	16.75		C
ANISOU	947	CD1	ILE B 17	2731	1807	1826	453	540	393	C
ATOM	948	N	THR B 18	19.526	35.760	21.367	1.00	12.70		N
ANISOU	948	N	THR B 18	1674	1974	1176	-30	-240	93	N
ATOM	949	CA	THR B 18	18.142	35.949	21.780	1.00	12.26		C
ANISOU	949	CA	THR B 18	1707	1632	1320	12	-247	-389	C

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ATOM	950	C	THR	B	18	17.563	37.209	21.168	1.00	12.50	C	
ANISOU	950	C	THR	B	18	1775	1408	1566	-77	-239	-447	C
ATOM	951	O	THR	B	18	18.172	38.258	21.223	1.00	14.27	O	
ANISOU	951	O	THR	B	18	1967	1734	1720	-376	-340	-183	O
ATOM	952	CB	THR	B	18	18.051	36.062	23.298	1.00	12.36	C	
ANISOU	952	CB	THR	B	18	1980	1368	1347	-114	-166	-597	C
ATOM	953	OG1	THR	B	18	18.442	34.796	23.847	1.00	14.23	O	
ANISOU	953	OG1	THR	B	18	2285	1697	1425	-83	-285	-276	O
ATOM	954	CG2	THR	B	18	16.609	36.369	23.760	1.00	14.34	C	
ANISOU	954	CG2	THR	B	18	2126	1772	1550	-102	27	-575	C
ATOM	955	N	GLY	B	19	16.377	37.082	20.571	1.00	12.11	N	
ANISOU	955	N	GLY	B	19	1724	1474	1403	-202	-180	-22	N
ATOM	956	CA	GLY	B	19	15.761	38.259	20.007	1.00	13.13	C	
ANISOU	956	CA	GLY	B	19	2147	1657	1185	263	-95	-301	C
ATOM	957	C	GLY	B	19	14.831	37.869	18.864	1.00	10.76	C	
ANISOU	957	C	GLY	B	19	1509	1384	1196	14	138	-79	C
ATOM	958	O	GLY	B	19	14.547	36.707	18.684	1.00	12.69	O	
ANISOU	958	O	GLY	B	19	1868	1360	1594	-149	91	41	O
ATOM	959	N	THR	B	20	14.384	38.895	18.166	1.00	11.17	N	
ANISOU	959	N	THR	B	20	1633	1283	1328	-90	-36	-122	N
ATOM	960	CA	THR	B	20	13.502	38.799	17.014	1.00	10.55	C	
ANISOU	960	CA	THR	B	20	1663	1296	1048	16	117	-200	C
ATOM	961	C	THR	B	20	14.324	39.171	15.789	1.00	10.33	C	
ANISOU	961	C	THR	B	20	1445	1180	1300	-62	118	-187	C
ATOM	962	O	THR	B	20	14.902	40.251	15.678	1.00	13.41	O	
ANISOU	962	O	THR	B	20	1978	1312	1806	-321	225	-132	O
ATOM	963	CB	THR	B	20	12.284	39.706	17.165	1.00	12.41	C	
ANISOU	963	CB	THR	B	20	1504	1888	1323	83	72	-316	C
ATOM	964	OG1	THR	B	20	11.533	39.227	18.282	1.00	14.16	O	
ANISOU	964	OG1	THR	B	20	1683	2014	1684	157	387	-205	O
ATOM	965	CG2	THR	B	20	11.350	39.691	15.947	1.00	13.10	C	
ANISOU	965	CG2	THR	B	20	1404	1798	1776	-381	-164	-50	C
ATOM	966	N	TRP	B	21	14.369	38.195	14.865	1.00	10.33	N	
ANISOU	966	N	TRP	B	21	1315	1449	1163	87	66	-309	N
ATOM	967	CA	TRP	B	21	15.149	38.247	13.659	1.00	10.30	C	
ANISOU	967	CA	TRP	B	21	1097	1680	1135	187	-53	-34	C
ATOM	968	C	TRP	B	21	14.239	38.169	12.433	1.00	9.99	C	
ANISOU	968	C	TRP	B	21	1248	1354	1192	-36	-121	70	C
ATOM	969	O	TRP	B	21	13.172	37.594	12.502	1.00	11.74	O	
ANISOU	969	O	TRP	B	21	1517	1519	1424	-416	-142	13	O
ATOM	970	CB	TRP	B	21	16.097	37.038	13.635	1.00	11.51	C	
ANISOU	970	CB	TRP	B	21	1418	1841	1114	431	-76	-246	C
ATOM	971	CG	TRP	B	21	17.132	37.000	14.713	1.00	10.96	C	
ANISOU	971	CG	TRP	B	21	1314	1559	1291	79	-88	419	C
ATOM	972	CD1	TRP	B	21	16.944	36.484	15.994	1.00	11.33	C	
ANISOU	972	CD1	TRP	B	21	1580	1759	967	-300	-39	-118	C
ATOM	973	CD2	TRP	B	21	18.482	37.473	14.647	1.00	11.32	C	
ANISOU	973	CD2	TRP	B	21	1518	1722	1063	-167	49	-105	C
ATOM	974	NE1	TRP	B	21	18.121	36.614	16.711	1.00	11.66	N	
ANISOU	974	NE1	TRP	B	21	1468	1947	1017	-34	-28	-82	N
ATOM	975	CE2	TRP	B	21	19.065	37.220	15.890	1.00	12.72	C	
ANISOU	975	CE2	TRP	B	21	1426	2148	1259	-115	-87	52	C
ATOM	976	CE3	TRP	B	21	19.283	38.082	13.665	1.00	11.26	C	
ANISOU	976	CE3	TRP	B	21	1282	1831	1165	-31	141	-168	C
ATOM	977	CZ2	TRP	B	21	20.385	37.553	16.196	1.00	11.97	C	
ANISOU	977	CZ2	TRP	B	21	1479	1387	1682	-134	-186	101	C

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ATOM	978	CZ3	TRP	B	21	20.584	38.403	13.973	1.00	11.66		C
ANISOU	978	CZ3	TRP	B	21	1321	1825	1286	-13	56	-365	C
ATOM	979	CH2	TRP	B	21	21.123	38.133	15.223	1.00	13.68		C
ANISOU	979	CH2	TRP	B	21	1863	1821	1512	-674	-304	-27	C
ATOM	980	N	TYR	B	22	14.750	38.704	11.333	1.00	11.20		N
ANISOU	980	N	TYR	B	22	1583	1518	1156	-183	-66	3	N
ATOM	981	CA	TYR	B	22	14.016	38.725	10.083	1.00	10.34		C
ANISOU	981	CA	TYR	B	22	1522	1194	1212	17	-151	88	C
ATOM	982	C	TYR	B	22	14.976	38.335	8.978	1.00	9.68		C
ANISOU	982	C	TYR	B	22	1437	1127	1113	73	-206	144	C
ATOM	983	O	TYR	B	22	16.115	38.769	9.038	1.00	11.28		O
ANISOU	983	O	TYR	B	22	1417	1286	1584	107	-157	-341	O
ATOM	984	CB	TYR	B	22	13.461	40.109	9.810	1.00	11.91		C
ANISOU	984	CB	TYR	B	22	2162	1131	1231	124	204	59	C
ATOM	985	CG	TYR	B	22	12.604	40.671	10.916	1.00	11.96		C
ANISOU	985	CG	TYR	B	22	2047	1277	1219	77	158	14	C
ATOM	986	CD1	TYR	B	22	13.211	41.455	11.884	1.00	12.23		C
ANISOU	986	CD1	TYR	B	22	1975	1120	1552	221	153	-204	C
ATOM	987	CD2	TYR	B	22	11.240	40.456	10.989	1.00	13.80		C
ANISOU	987	CD2	TYR	B	22	1947	1507	1790	310	42	-410	C
ATOM	988	CE1	TYR	B	22	12.496	41.990	12.900	1.00	14.14		C
ANISOU	988	CE1	TYR	B	22	2343	1174	1854	97	493	-401	C
ATOM	989	CE2	TYR	B	22	10.473	40.989	12.018	1.00	13.99		C
ANISOU	989	CE2	TYR	B	22	2183	1444	1688	387	219	-172	C
ATOM	990	CZ	TYR	B	22	11.141	41.747	12.951	1.00	13.66		C
ANISOU	990	CZ	TYR	B	22	2164	1291	1737	565	257	-292	C
ATOM	991	OH	TYR	B	22	10.400	42.298	13.976	1.00	17.83		O
ANISOU	991	OH	TYR	B	22	2411	2282	2082	205	582	-743	O
ATOM	992	N	ASN	B	23	14.483	37.544	8.029	1.00	10.28		N
ANISOU	992	N	ASN	B	23	1272	1481	1153	-220	-19	81	N
ATOM	993	CA	ASN	B	23	15.405	37.199	6.923	1.00	10.18		C
ANISOU	993	CA	ASN	B	23	1205	1503	1158	-222	-25	8	C
ATOM	994	C	ASN	B	23	15.067	38.055	5.690	1.00	10.70		C
ANISOU	994	C	ASN	B	23	1783	1258	1023	-13	-85	-191	C
ATOM	995	O	ASN	B	23	14.189	38.924	5.713	1.00	12.23		O
ANISOU	995	O	ASN	B	23	1592	1662	1391	133	88	36	O
ATOM	996	CB	ASN	B	23	15.418	35.703	6.696	1.00	10.55		C
ANISOU	996	CB	ASN	B	23	1420	1461	1128	-27	-152	98	C
ATOM	997	CG	ASN	B	23	14.218	35.025	6.167	1.00	11.14		C
ANISOU	997	CG	ASN	B	23	1404	1505	1325	-75	72	-297	C
ATOM	998	OD1	ASN	B	23	14.016	33.789	6.059	1.00	12.56		O
ANISOU	998	OD1	ASN	B	23	1874	1411	1486	-93	-55	-42	O
ATOM	999	ND2	ASN	B	23	13.247	35.798	5.748	1.00	8.38		N
ANISOU	999	ND2	ASN	B	23	1204	1115	866	-381	135	-334	N
ATOM	1000	N	GLN	B	24	15.687	37.705	4.582	1.00	11.57		N
ANISOU	1000	N	GLN	B	24	2022	1321	1053	146	-16	-101	N
ATOM	1001	CA	GLN	B	24	15.549	38.463	3.326	1.00	11.93		C
ANISOU	1001	CA	GLN	B	24	2141	1233	1158	164	64	51	C
ATOM	1002	C	GLN	B	24	14.184	38.259	2.694	1.00	12.41		C
ANISOU	1002	C	GLN	B	24	2281	1385	1048	202	-56	43	C
ATOM	1003	O	GLN	B	24	13.824	39.044	1.817	1.00	14.55		O
ANISOU	1003	O	GLN	B	24	2111	1933	1483	333	123	507	O
ATOM	1004	CB	GLN	B	24	16.655	38.080	2.339	1.00	14.69		C
ANISOU	1004	CB	GLN	B	24	2398	1575	1607	-282	598	22	C
ATOM	1005	CG	GLN	B	24	16.584	36.683	1.727	1.00	12.50		C
ANISOU	1005	CG	GLN	B	24	1896	1787	1067	139	228	-84	C

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ATOM	1006	CD	GLN	B	24	16.771	35.519	2.665	1.00	11.40		C
ANISOU	1006	CD	GLN	B	24	1626	1585	1122	464	102	-287	C
ATOM	1007	OE1	GLN	B	24	17.252	35.602	3.783	1.00	12.42		O
ANISOU	1007	OE1	GLN	B	24	1704	1674	1340	201	-233	-136	O
ATOM	1008	NE2	GLN	B	24	16.370	34.347	2.159	1.00	12.39		N
ANISOU	1008	NE2	GLN	B	24	1687	1783	1237	58	-28	-132	N
ATOM	1009	N	LEU	B	25	13.441	37.238	3.087	1.00	11.81		N
ANISOU	1009	N	LEU	B	25	1592	1576	1320	493	-35	321	N
ATOM	1010	CA	LEU	B	25	12.087	37.024	2.613	1.00	12.85		C
ANISOU	1010	CA	LEU	B	25	1683	2107	1094	494	-156	287	C
ATOM	1011	C	LEU	B	25	11.032	37.723	3.463	1.00	12.92		C
ANISOU	1011	C	LEU	B	25	1514	2114	1279	231	83	401	C
ATOM	1012	O	LEU	B	25	9.836	37.761	3.087	1.00	15.70		O
ANISOU	1012	O	LEU	B	25	1525	2531	1908	247	19	258	O
ATOM	1013	CB	LEU	B	25	11.750	35.527	2.614	1.00	13.58		C
ANISOU	1013	CB	LEU	B	25	1406	2245	1508	280	-57	186	C
ATOM	1014	CG	LEU	B	25	12.712	34.667	1.803	1.00	13.62		C
ANISOU	1014	CG	LEU	B	25	1672	2104	1401	264	-198	-35	C
ATOM	1015	CD1	LEU	B	25	12.456	33.201	2.094	1.00	15.24		C
ANISOU	1015	CD1	LEU	B	25	2078	2136	1576	-313	59	-431	C
ATOM	1016	CD2	LEU	B	25	12.564	35.080	0.352	1.00	27.72		C
ANISOU	1016	CD2	LEU	B	25	4500	4436	1597	2001	827	899	C
ATOM	1017	N	GLY	B	26	11.439	38.260	4.614	1.00	12.70		N
ANISOU	1017	N	GLY	B	26	1713	1750	1361	217	215	271	N
ATOM	1018	CA	GLY	B	26	10.531	38.891	5.560	1.00	13.21		C
ANISOU	1018	CA	GLY	B	26	1992	1724	1305	716	168	608	C
ATOM	1019	C	GLY	B	26	9.879	38.002	6.579	1.00	11.16		C
ANISOU	1019	C	GLY	B	26	1600	1539	1100	438	-29	345	C
ATOM	1020	O	GLY	B	26	8.934	38.371	7.279	1.00	15.54		O
ANISOU	1020	O	GLY	B	26	1956	1833	2116	449	614	208	O
ATOM	1021	N	SER	B	27	10.413	36.789	6.716	1.00	11.59		N
ANISOU	1021	N	SER	B	27	1833	1452	1119	276	320	279	N
ATOM	1022	CA	SER	B	27	10.076	35.817	7.731	1.00	9.33		C
ANISOU	1022	CA	SER	B	27	1211	1303	1031	127	135	184	C
ATOM	1023	C	SER	B	27	10.603	36.305	9.069	1.00	9.95		C
ANISOU	1023	C	SER	B	27	1109	1616	1054	109	115	62	C
ATOM	1024	O	SER	B	27	11.614	36.991	9.128	1.00	11.40		O
ANISOU	1024	O	SER	B	27	1219	1916	1197	-45	244	-11	O
ATOM	1025	CB	SER	B	27	10.660	34.433	7.427	1.00	9.66		C
ANISOU	1025	CB	SER	B	27	1192	1373	1107	167	-137	116	C
ATOM	1026	OG	SER	B	27	10.123	33.998	6.180	1.00	10.41		O
ANISOU	1026	OG	SER	B	27	1410	1441	1106	105	-215	57	O
ATOM	1027	N	THR	B	28	9.855	35.935	10.115	1.00	9.23		N
ANISOU	1027	N	THR	B	28	1254	1253	997	133	22	214	N
ATOM	1028	CA	THR	B	28	10.169	36.351	11.453	1.00	10.29		C
ANISOU	1028	CA	THR	B	28	1271	1646	993	112	-36	176	C
ATOM	1029	C	THR	B	28	10.559	35.181	12.331	1.00	10.07		C
ANISOU	1029	C	THR	B	28	1402	1456	967	96	-85	73	C
ATOM	1030	O	THR	B	28	9.775	34.265	12.477	1.00	10.55		O
ANISOU	1030	O	THR	B	28	1456	1469	1082	24	-107	-53	O
ATOM	1031	CB	THR	B	28	8.934	37.034	12.079	1.00	11.08		C
ANISOU	1031	CB	THR	B	28	1489	1595	1125	228	-35	-62	C
ATOM	1032	OG1	THR	B	28	8.538	38.133	11.249	1.00	12.47		O
ANISOU	1032	OG1	THR	B	28	1673	1793	1274	373	-100	-2	O
ATOM	1033	CG2	THR	B	28	9.306	37.566	13.435	1.00	13.92		C
ANISOU	1033	CG2	THR	B	28	2674	1499	1116	222	-91	-108	C

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ATOM	1034	N	PHE	B	29	11.728	35.260	12.934	1.00	9.57		N
ANISOU	1034	N	PHE	B	29	1233	1316	1089	155	53	122	N
ATOM	1035	CA	PHE	B	29	12.340	34.219	13.726	1.00	9.17		C
ANISOU	1035	CA	PHE	B	29	1283	1206	994	195	-2	-76	C
ATOM	1036	C	PHE	B	29	12.574	34.795	15.120	1.00	9.53		C
ANISOU	1036	C	PHE	B	29	1598	1127	897	-25	97	26	C
ATOM	1037	O	PHE	B	29	13.403	35.681	15.307	1.00	10.47		O
ANISOU	1037	O	PHE	B	29	1642	1298	1037	-213	-28	59	O
ATOM	1038	CB	PHE	B	29	13.653	33.861	13.059	1.00	10.22		C
ANISOU	1038	CB	PHE	B	29	1462	1474	948	366	157	111	C
ATOM	1039	CG	PHE	B	29	14.614	32.988	13.829	1.00	9.56		C
ANISOU	1039	CG	PHE	B	29	1296	1294	1044	178	30	-42	C
ATOM	1040	CD1	PHE	B	29	14.193	31.912	14.583	1.00	10.53		C
ANISOU	1040	CD1	PHE	B	29	1695	1484	822	-102	-403	97	C
ATOM	1041	CD2	PHE	B	29	15.963	33.252	13.796	1.00	11.42		C
ANISOU	1041	CD2	PHE	B	29	1272	1886	1181	165	83	-65	C
ATOM	1042	CE1	PHE	B	29	15.114	31.117	15.249	1.00	10.35		C
ANISOU	1042	CE1	PHE	B	29	1431	1527	974	-245	-479	97	C
ATOM	1043	CE2	PHE	B	29	16.871	32.474	14.435	1.00	10.63		C
ANISOU	1043	CE2	PHE	B	29	1306	1521	1213	-96	-179	-96	C
ATOM	1044	CZ	PHE	B	29	16.443	31.388	15.165	1.00	10.69		C
ANISOU	1044	CZ	PHE	B	29	1452	1463	1146	-322	-231	-267	C
ATOM	1045	N	ILE	B	30	11.785	34.298	16.065	1.00	9.30		N
ANISOU	1045	N	ILE	B	30	1502	1054	976	-127	3	18	N
ATOM	1046	CA	ILE	B	30	11.811	34.764	17.430	1.00	10.13		C
ANISOU	1046	CA	ILE	B	30	1587	1303	957	145	115	-69	C
ATOM	1047	C	ILE	B	30	12.380	33.645	18.295	1.00	10.54		C
ANISOU	1047	C	ILE	B	30	1763	1239	1001	43	-280	-175	C
ATOM	1048	O	ILE	B	30	11.876	32.528	18.302	1.00	11.07		O
ANISOU	1048	O	ILE	B	30	1722	1420	1063	-221	-32	-51	O
ATOM	1049	CB	ILE	B	30	10.432	35.168	17.957	1.00	9.79		C
ANISOU	1049	CB	ILE	B	30	1307	1617	794	-103	13	177	C
ATOM	1050	CG1	ILE	B	30	9.669	36.146	17.067	1.00	12.45		C
ANISOU	1050	CG1	ILE	B	30	1713	1789	1227	347	-108	29	C
ATOM	1051	CG2	ILE	B	30	10.590	35.793	19.339	1.00	13.03		C
ANISOU	1051	CG2	ILE	B	30	1968	2288	693	-26	445	2	C
ATOM	1052	CD1	ILE	B	30	8.228	36.427	17.469	1.00	14.35		C
ANISOU	1052	CD1	ILE	B	30	1938	2251	1265	747	92	-20	C
ATOM	1053	N	VAL	B	31	13.497	33.975	18.938	1.00	10.72		N
ANISOU	1053	N	VAL	B	31	1562	1351	1159	58	-153	-364	N
ATOM	1054	CA	VAL	B	31	14.231	32.862	19.578	1.00	11.76		C
ANISOU	1054	CA	VAL	B	31	1699	1666	1104	175	-182	-134	C
ATOM	1055	C	VAL	B	31	14.815	33.306	20.910	1.00	11.76		C
ANISOU	1055	C	VAL	B	31	1764	1674	1032	-31	-61	-134	C
ATOM	1056	O	VAL	B	31	15.174	34.464	21.115	1.00	11.43		O
ANISOU	1056	O	VAL	B	31	1627	1609	1107	3	-196	59	O
ATOM	1057	CB	VAL	B	31	15.362	32.364	18.662	1.00	11.46		C
ANISOU	1057	CB	VAL	B	31	1723	1394	1238	98	-190	-371	C
ATOM	1058	CG1	VAL	B	31	16.430	33.442	18.530	1.00	15.15		C
ANISOU	1058	CG1	VAL	B	31	1657	2273	1828	-307	-131	-708	C
ATOM	1059	CG2	VAL	B	31	15.977	31.049	19.122	1.00	14.65		C
ANISOU	1059	CG2	VAL	B	31	2493	2221	852	857	51	-45	C
ATOM	1060	N	THR	B	32	14.935	32.358	21.804	1.00	10.14		N
ANISOU	1060	N	THR	B	32	1359	1417	1075	-54	-209	-249	N
ATOM	1061	CA	THR	B	32	15.653	32.466	23.055	1.00	11.32		C
ANISOU	1061	CA	THR	B	32	1437	1570	1296	-202	-385	-166	C

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ATOM	1062	C	THR	B	32	16.795	31.450	23.080	1.00	11.04	C	
ANISOU	1062	C	THR	B	32	1486	1503	1204	-187	-273	3	C
ATOM	1063	O	THR	B	32	16.570	30.280	22.788	1.00	13.38	O	
ANISOU	1063	O	THR	B	32	1784	1642	1656	-123	-457	-494	O
ATOM	1064	CB	THR	B	32	14.751	32.216	24.263	1.00	15.28	C	
ANISOU	1064	CB	THR	B	32	2458	2320	1027	549	54	-289	C
ATOM	1065	OG1	THR	B	32	13.745	33.232	24.283	1.00	16.05	O	
ANISOU	1065	OG1	THR	B	32	2196	1871	2030	196	157	-209	O
ATOM	1066	CG2	THR	B	32	15.588	32.320	25.540	1.00	18.19	C	
ANISOU	1066	CG2	THR	B	32	2291	3357	1265	421	-35	-748	C
ATOM	1067	N	ALA	B	33	17.982	31.973	23.387	1.00	11.51	N	
ANISOU	1067	N	ALA	B	33	1377	1517	1477	-94	-234	-56	N
ATOM	1068	CA	ALA	B	33	19.176	31.177	23.511	1.00	11.05	C	
ANISOU	1068	CA	ALA	B	33	1504	1616	1077	176	-27	-140	C
ATOM	1069	C	ALA	B	33	19.386	30.919	25.013	1.00	10.71	C	
ANISOU	1069	C	ALA	B	33	1335	1648	1088	292	28	-236	C
ATOM	1070	O	ALA	B	33	19.642	31.857	25.785	1.00	15.00	O	
ANISOU	1070	O	ALA	B	33	2599	1691	1409	294	-457	-410	O
ATOM	1071	CB	ALA	B	33	20.368	31.869	22.909	1.00	12.75	C	
ANISOU	1071	CB	ALA	B	33	1636	1785	1424	408	356	-49	C
ATOM	1072	N	GLY	B	34	19.227	29.647	25.341	1.00	11.20	N	
ANISOU	1072	N	GLY	B	34	1600	1720	937	47	-341	-158	N
ATOM	1073	CA	GLY	B	34	19.426	29.203	26.735	1.00	12.49	C	
ANISOU	1073	CA	GLY	B	34	1555	2243	948	420	-205	-47	C
ATOM	1074	C	GLY	B	34	20.892	29.177	27.066	1.00	11.34	C	
ANISOU	1074	C	GLY	B	34	1502	2048	760	254	-132	-38	C
ATOM	1075	O	GLY	B	34	21.683	29.009	26.131	1.00	12.55	O	
ANISOU	1075	O	GLY	B	34	1613	2339	818	69	-66	-251	O
ATOM	1076	N	ALA	B	35	21.235	29.307	28.342	1.00	13.20	N	
ANISOU	1076	N	ALA	B	35	1555	2679	782	-236	-60	-301	N
ATOM	1077	CA	ALA	B	35	22.645	29.439	28.681	1.00	13.57	C	
ANISOU	1077	CA	ALA	B	35	1648	2641	869	-177	-175	-400	C
ATOM	1078	C	ALA	B	35	23.509	28.249	28.293	1.00	14.96	C	
ANISOU	1078	C	ALA	B	35	1743	2839	1101	27	-554	-654	C
ATOM	1079	O	ALA	B	35	24.713	28.409	28.084	1.00	14.66	O	
ANISOU	1079	O	ALA	B	35	1823	2387	1358	240	-345	87	O
ATOM	1080	CB	ALA	B	35	22.779	29.696	30.188	1.00	22.17	C	
ANISOU	1080	CB	ALA	B	35	1888	5332	1203	-721	-55	-1680	C
ATOM	1081	N	ASP	B	36	22.922	27.064	28.234	1.00	13.87	N	
ANISOU	1081	N	ASP	B	36	1627	2689	953	210	-516	-457	N
ATOM	1082	CA	ASP	B	36	23.702	25.874	27.957	1.00	15.21	C	
ANISOU	1082	CA	ASP	B	36	1903	2771	1106	478	-465	-176	C
ATOM	1083	C	ASP	B	36	23.561	25.325	26.555	1.00	14.67	C	
ANISOU	1083	C	ASP	B	36	1852	2698	1025	891	-211	-164	C
ATOM	1084	O	ASP	B	36	23.937	24.170	26.345	1.00	20.11	O	
ANISOU	1084	O	ASP	B	36	3635	2459	1547	987	-603	-197	O
ATOM	1085	CB	ASP	B	36	23.351	24.725	28.930	1.00	23.15	C	
ANISOU	1085	CB	ASP	B	36	3730	3666	1401	1122	-403	810	C
ATOM	1086	CG	ASP	B	36	24.325	24.890	30.095	1.00	31.73	C	
ANISOU	1086	CG	ASP	B	36	4150	5546	2360	762	-1204	1477	C
ATOM	1087	OD1	ASP	B	36	23.739	24.958	31.171	1.00	46.37	O	
ANISOU	1087	OD1	ASP	B	36	8462	7459	1696	2748	-1018	-479	O
ATOM	1088	OD2	ASP	B	36	25.545	24.955	29.836	1.00	50.29	O	
ANISOU	1088	OD2	ASP	B	36	3854	7495	7759	-783	-1808	4822	O
ATOM	1089	N	GLY	B	37	23.012	26.112	25.635	1.00	13.08	N	
ANISOU	1089	N	GLY	B	37	1908	2000	1061	204	-485	-260	N

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ATOM	1090	CA	GLY	B	37	23.027	25.651	24.256	1.00	11.20	C	
ANISOU	1090	CA	GLY	B	37	1605	1636	1015	-238	-425	-201	C
ATOM	1091	C	GLY	B	37	21.673	25.489	23.611	1.00	12.14	C	
ANISOU	1091	C	GLY	B	37	1507	1988	1119	231	-418	-258	C
ATOM	1092	O	GLY	B	37	21.601	25.194	22.423	1.00	10.55	O	
ANISOU	1092	O	GLY	B	37	1416	1602	992	-73	-360	-47	O
ATOM	1093	N	ALA	B	38	20.571	25.643	24.312	1.00	10.59	N	
ANISOU	1093	N	ALA	B	38	1589	1566	869	42	-357	70	N
ATOM	1094	CA	ALA	B	38	19.276	25.472	23.672	1.00	10.96	C	
ANISOU	1094	CA	ALA	B	38	1494	1854	817	-68	-220	329	C
ATOM	1095	C	ALA	B	38	18.852	26.712	22.882	1.00	9.61	C	
ANISOU	1095	C	ALA	B	38	1404	1577	670	249	-92	-69	C
ATOM	1096	O	ALA	B	38	19.110	27.848	23.238	1.00	11.55	O	
ANISOU	1096	O	ALA	B	38	1738	1635	1018	398	-220	-395	O
ATOM	1097	CB	ALA	B	38	18.185	25.167	24.695	1.00	13.08	C	
ANISOU	1097	CB	ALA	B	38	1574	2588	808	371	-71	485	C
ATOM	1098	N	LEU	B	39	18.159	26.420	21.784	1.00	10.24	N	
ANISOU	1098	N	LEU	B	39	1484	1596	812	368	-262	-164	N
ATOM	1099	CA	LEU	B	39	17.464	27.415	21.034	1.00	9.69	C	
ANISOU	1099	CA	LEU	B	39	1248	1621	811	225	-3	108	C
ATOM	1100	C	LEU	B	39	15.972	27.024	21.071	1.00	9.34	C	
ANISOU	1100	C	LEU	B	39	1294	1429	825	150	14	145	C
ATOM	1101	O	LEU	B	39	15.633	25.881	20.752	1.00	11.00	O	
ANISOU	1101	O	LEU	B	39	1422	1528	1229	194	-22	-141	O
ATOM	1102	CB	LEU	B	39	17.875	27.543	19.566	1.00	9.69	C	
ANISOU	1102	CB	LEU	B	39	1409	1380	895	305	193	-22	C
ATOM	1103	CG	LEU	B	39	19.305	27.997	19.291	1.00	10.55	C	
ANISOU	1103	CG	LEU	B	39	1383	1857	768	179	190	-280	C
ATOM	1104	CD1	LEU	B	39	19.576	28.140	17.804	1.00	11.30	C	
ANISOU	1104	CD1	LEU	B	39	1398	2175	720	253	93	0	C
ATOM	1105	CD2	LEU	B	39	19.612	29.351	19.947	1.00	11.68	C	
ANISOU	1105	CD2	LEU	B	39	1470	1844	1123	211	-308	-231	C
ATOM	1106	N	THR	B	40	15.121	27.954	21.437	1.00	9.83	N	
ANISOU	1106	N	THR	B	40	1250	1466	1019	49	75	-174	N
ATOM	1107	CA	THR	B	40	13.690	27.705	21.540	1.00	9.95	C	
ANISOU	1107	CA	THR	B	40	1279	1302	1199	25	-63	-487	C
ATOM	1108	C	THR	B	40	12.948	28.946	21.051	1.00	9.72	C	
ANISOU	1108	C	THR	B	40	1014	1357	1323	-166	131	-148	C
ATOM	1109	O	THR	B	40	13.307	30.057	21.426	1.00	14.08	O	
ANISOU	1109	O	THR	B	40	1618	1293	2439	-127	-685	-79	O
ATOM	1110	CB	THR	B	40	13.279	27.454	22.987	1.00	11.83	C	
ANISOU	1110	CB	THR	B	40	1253	1736	1506	333	363	23	C
ATOM	1111	OG1	THR	B	40	14.091	26.428	23.602	1.00	16.67	O	
ANISOU	1111	OG1	THR	B	40	2192	2353	1787	863	190	220	O
ATOM	1112	CG2	THR	B	40	11.867	26.906	23.153	1.00	20.64	C	
ANISOU	1112	CG2	THR	B	40	1384	4797	1661	-523	261	-518	C
ATOM	1113	N	GLY	B	41	11.927	28.757	20.216	1.00	9.73	N	
ANISOU	1113	N	GLY	B	41	1331	1349	1018	-176	69	-32	N
ATOM	1114	CA	GLY	B	41	11.194	29.933	19.773	1.00	9.58	C	
ANISOU	1114	CA	GLY	B	41	1064	1469	1108	-142	279	145	C
ATOM	1115	C	GLY	B	41	10.135	29.609	18.766	1.00	9.60	C	
ANISOU	1115	C	GLY	B	41	1107	1613	928	10	333	-24	C
ATOM	1116	O	GLY	B	41	9.575	28.500	18.716	1.00	9.47	O	
ANISOU	1116	O	GLY	B	41	1108	1618	871	32	181	-15	O
ATOM	1117	N	THR	B	42	9.818	30.616	17.961	1.00	10.02	N	
ANISOU	1117	N	THR	B	42	1364	1517	927	-110	151	-110	N

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ATOM 1118	CA THR B 42	8.811	30.466	16.932	1.00	10.04		C
ANISOU 1118	CA THR B 42	1126	1634	1053	-229	122	4	C
ATOM 1119	C THR B 42	9.297	31.019	15.601	1.00	8.52		C
ANISOU 1119	C THR B 42	744	1425	1071	23	93	-47	C
ATOM 1120	O THR B 42	10.151	31.912	15.569	1.00	9.75		O
ANISOU 1120	O THR B 42	1246	1510	949	-273	139	-119	O
ATOM 1121	CB THR B 42	7.487	31.171	17.278	1.00	10.11		C
ANISOU 1121	CB THR B 42	1222	1715	905	-205	309	138	C
ATOM 1122	OG1 THR B 42	7.683	32.581	17.429	1.00	12.06		O
ANISOU 1122	OG1 THR B 42	1656	1697	1231	-51	334	46	O
ATOM 1123	CG2 THR B 42	6.858	30.614	18.550	1.00	12.36		C
ANISOU 1123	CG2 THR B 42	1599	2059	1037	131	390	478	C
ATOM 1124	N TYR B 43	8.694	30.502	14.528	1.00	8.46		N
ANISOU 1124	N TYR B 43	1119	1100	994	-32	80	25	N
ATOM 1125	CA TYR B 43	9.083	30.933	13.191	1.00	8.94		C
ANISOU 1125	CA TYR B 43	1109	1253	1036	171	87	74	C
ATOM 1126	C TYR B 43	7.806	31.210	12.436	1.00	8.36		C
ANISOU 1126	C TYR B 43	1166	1066	943	151	59	-99	C
ATOM 1127	O TYR B 43	6.858	30.412	12.494	1.00	10.26		O
ANISOU 1127	O TYR B 43	1250	1422	1225	-25	-60	1	O
ATOM 1128	CB TYR B 43	9.895	29.847	12.496	1.00	8.66		C
ANISOU 1128	CB TYR B 43	1008	1398	884	162	-136	-168	C
ATOM 1129	CG TYR B 43	10.689	30.357	11.319	1.00	8.52		C
ANISOU 1129	CG TYR B 43	1111	1166	958	163	-65	-160	C
ATOM 1130	CD1 TYR B 43	10.146	30.548	10.053	1.00	8.73		C
ANISOU 1130	CD1 TYR B 43	1047	1307	962	117	-29	-123	C
ATOM 1131	CD2 TYR B 43	12.026	30.668	11.517	1.00	8.11		C
ANISOU 1131	CD2 TYR B 43	1228	1135	719	29	-64	-62	C
ATOM 1132	CE1 TYR B 43	10.892	31.028	8.977	1.00	9.45		C
ANISOU 1132	CE1 TYR B 43	1232	1396	961	67	-34	-92	C
ATOM 1133	CE2 TYR B 43	12.759	31.136	10.465	1.00	8.82		C
ANISOU 1133	CE2 TYR B 43	1212	1495	643	204	131	-212	C
ATOM 1134	CZ TYR B 43	12.212	31.320	9.196	1.00	9.15		C
ANISOU 1134	CZ TYR B 43	1250	1590	636	-33	86	-270	C
ATOM 1135	OH TYR B 43	13.035	31.794	8.202	1.00	9.46		O
ANISOU 1135	OH TYR B 43	1283	1616	694	67	-2	-5	O
ATOM 1136	N GLU B 44	7.772	32.328	11.754	1.00	9.37		N
ANISOU 1136	N GLU B 44	1322	1400	839	31	-95	146	N
ATOM 1137	CA GLU B 44	6.671	32.715	10.881	1.00	8.76		C
ANISOU 1137	CA GLU B 44	1084	1453	790	60	-45	-133	C
ATOM 1138	C GLU B 44	7.236	32.979	9.476	1.00	8.75		C
ANISOU 1138	C GLU B 44	1361	1219	745	251	-108	-39	C
ATOM 1139	O GLU B 44	8.050	33.901	9.311	1.00	10.93		O
ANISOU 1139	O GLU B 44	1496	1851	807	-213	-79	-47	O
ATOM 1140	CB GLU B 44	5.972	33.952	11.444	1.00	10.05		C
ANISOU 1140	CB GLU B 44	1385	1408	1027	165	197	43	C
ATOM 1141	CG GLU B 44	4.745	34.315	10.619	1.00	12.97		C
ANISOU 1141	CG GLU B 44	1716	1934	1278	569	-2	174	C
ATOM 1142	CD GLU B 44	3.946	35.451	11.176	1.00	15.60		C
ANISOU 1142	CD GLU B 44	1703	2231	1995	683	100	-114	C
ATOM 1143	OE1 GLU B 44	2.842	35.691	10.629	1.00	19.83		O
ANISOU 1143	OE1 GLU B 44	1716	2592	3225	731	-175	-101	O
ATOM 1144	OE2 GLU B 44	4.398	36.109	12.145	1.00	19.17		O
ANISOU 1144	OE2 GLU B 44	2603	2723	1956	974	26	-467	O
ATOM 1145	N SER B 45	6.846	32.120	8.513	1.00	10.05		N
ANISOU 1145	N SER B 45	1454	1513	851	89	113	-282	N

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ATOM	1146	CA	SER	B	45	7.415	32.268	7.183	1.00	8.34		C
ANISOU	1146	CA	SER	B	45	1031	1320	818	3	-69	-209	C
ATOM	1147	C	SER	B	45	6.559	33.185	6.347	1.00	10.00		C
ANISOU	1147	C	SER	B	45	1207	1531	1060	541	377	-39	C
ATOM	1148	O	SER	B	45	5.317	33.097	6.345	1.00	12.12		O
ANISOU	1148	O	SER	B	45	1164	1964	1478	491	55	6	O
ATOM	1149	CB	SER	B	45	7.454	30.904	6.477	1.00	8.97		C
ANISOU	1149	CB	SER	B	45	1484	1134	789	50	240	-95	C
ATOM	1150	OG	SER	B	45	7.978	31.082	5.154	1.00	9.60		O
ANISOU	1150	OG	SER	B	45	1188	1582	876	332	237	-6	O
ATOM	1151	N	ALA	B	46	7.226	34.052	5.610	1.00	10.53		N
ANISOU	1151	N	ALA	B	46	1439	1407	1156	371	92	-17	N
ATOM	1152	CA	ALA	B	46	6.523	34.949	4.682	1.00	12.75		C
ANISOU	1152	CA	ALA	B	46	1972	1634	1240	380	-80	143	C
ATOM	1153	C	ALA	B	46	6.126	34.250	3.397	1.00	12.40		C
ANISOU	1153	C	ALA	B	46	1705	1585	1422	270	-231	162	C
ATOM	1154	O	ALA	B	46	5.341	34.821	2.627	1.00	14.11		O
ANISOU	1154	O	ALA	B	46	2018	2060	1283	623	-158	180	O
ATOM	1155	CB	ALA	B	46	7.431	36.141	4.427	1.00	18.08		C
ANISOU	1155	CB	ALA	B	46	2975	1547	2346	-106	-1028	482	C
ATOM	1156	N	VAL	B	47	6.662	33.060	3.165	1.00	11.82		N
ANISOU	1156	N	VAL	B	47	1540	1877	1075	380	-106	32	N
ATOM	1157	CA	VAL	B	47	6.445	32.319	1.943	1.00	11.13		C
ANISOU	1157	CA	VAL	B	47	1281	1918	1029	182	-36	62	C
ATOM	1158	C	VAL	B	47	6.083	30.863	2.224	1.00	11.18		C
ANISOU	1158	C	VAL	B	47	1163	1976	1110	122	-52	75	C
ATOM	1159	O	VAL	B	47	6.290	30.317	3.298	1.00	11.99		O
ANISOU	1159	O	VAL	B	47	1390	2071	1093	45	-15	170	O
ATOM	1160	CB	VAL	B	47	7.668	32.330	1.005	1.00	11.00		C
ANISOU	1160	CB	VAL	B	47	1168	1801	1209	197	-13	70	C
ATOM	1161	CG1	VAL	B	47	8.007	33.778	0.614	1.00	12.55		C
ANISOU	1161	CG1	VAL	B	47	1455	1865	1451	111	-28	211	C
ATOM	1162	CG2	VAL	B	47	8.895	31.665	1.585	1.00	12.04		C
ANISOU	1162	CG2	VAL	B	47	1207	2266	1104	90	-100	552	C
ATOM	1163	N	GLY	B	48	5.532	30.219	1.194	1.00	12.40		N
ANISOU	1163	N	GLY	B	48	1379	2165	1166	-184	-181	156	N
ATOM	1164	CA	GLY	B	48	5.294	28.802	1.289	1.00	10.72		C
ANISOU	1164	CA	GLY	B	48	1141	2190	743	-149	-222	168	C
ATOM	1165	C	GLY	B	48	3.962	28.423	1.898	1.00	11.25		C
ANISOU	1165	C	GLY	B	48	1399	1991	886	68	257	95	C
ATOM	1166	O	GLY	B	48	3.101	29.271	2.119	1.00	13.79		O
ANISOU	1166	O	GLY	B	48	1654	2137	1449	317	336	183	O
ATOM	1167	N	ASN	B	49	3.860	27.101	2.158	1.00	11.54		N
ANISOU	1167	N	ASN	B	49	1210	1984	1189	100	206	48	N
ATOM	1168	CA	ASN	B	49	2.624	26.569	2.724	1.00	13.41		C
ANISOU	1168	CA	ASN	B	49	1524	2232	1340	-291	90	187	C
ATOM	1169	C	ASN	B	49	2.645	26.713	4.234	1.00	10.92		C
ANISOU	1169	C	ASN	B	49	931	1870	1349	21	163	274	C
ATOM	1170	O	ASN	B	49	2.913	25.775	4.999	1.00	13.13		O
ANISOU	1170	O	ASN	B	49	1675	1804	1511	139	210	303	O
ATOM	1171	CB	ASN	B	49	2.521	25.124	2.244	1.00	14.65		C
ANISOU	1171	CB	ASN	B	49	1699	2281	1585	-285	-533	38	C
ATOM	1172	CG	ASN	B	49	1.150	24.555	2.586	1.00	18.34		C
ANISOU	1172	CG	ASN	B	49	1835	2836	2299	-693	-593	-295	C
ATOM	1173	OD1	ASN	B	49	0.259	25.241	3.120	1.00	21.34		O
ANISOU	1173	OD1	ASN	B	49	1949	3642	2516	-441	-60	76	O

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ATOM	1174	ND2 ASN B 49	1.024	23.280	2.286	1.00	22.66		N
ANISOU	1174	ND2 ASN B 49	2929	2783	2897	-1097	-850	-84	N
ATOM	1175	N ALA B 50	2.400	27.927	4.678	1.00	12.37		N
ANISOU	1175	N ALA B 50	1466	1945	1289	414	-175	281	N
ATOM	1176	CA ALA B 50	2.665	28.301	6.058	1.00	12.40		C
ANISOU	1176	CA ALA B 50	1080	2342	1289	580	-141	151	C
ATOM	1177	C ALA B 50	1.793	29.481	6.385	1.00	12.40		C
ANISOU	1177	C ALA B 50	1215	2190	1306	487	-57	214	C
ATOM	1178	O ALA B 50	1.604	30.366	5.587	1.00	13.98		O
ANISOU	1178	O ALA B 50	1888	1828	1594	332	-40	202	O
ATOM	1179	CB ALA B 50	4.122	28.691	6.234	1.00	14.13		C
ANISOU	1179	CB ALA B 50	1121	2927	1320	487	-34	14	C
ATOM	1180	N GLU B 51	1.244	29.542	7.573	1.00	13.43		N
ANISOU	1180	N GLU B 51	1598	1948	1557	291	280	32	N
ATOM	1181	CA GLU B 51	0.557	30.722	8.119	1.00	11.77		C
ANISOU	1181	CA GLU B 51	1397	1697	1379	462	-246	123	C
ATOM	1182	C GLU B 51	0.777	30.756	9.619	1.00	11.21		C
ANISOU	1182	C GLU B 51	1039	1856	1364	234	161	122	C
ATOM	1183	O GLU B 51	0.826	29.741	10.315	1.00	11.64		O
ANISOU	1183	O GLU B 51	1275	1967	1181	97	67	114	O
ATOM	1184	CB GLU B 51	-0.897	30.677	7.757	1.00	15.16		C
ANISOU	1184	CB GLU B 51	1393	2518	1850	290	-251	59	C
ATOM	1185	CG GLU B 51	-1.830	29.800	8.521	1.00	23.06		C
ANISOU	1185	CG GLU B 51	1690	5441	1633	-356	9	770	C
ATOM	1186	CD GLU B 51	-3.263	29.925	8.012	1.00	26.44		C
ANISOU	1186	CD GLU B 51	1617	6622	1808	-551	-37	1010	C
ATOM	1187	OE1 GLU B 51	-3.933	30.880	8.468	1.00	29.27		O
ANISOU	1187	OE1 GLU B 51	1421	7594	2106	-102	-287	532	O
ATOM	1188	OE2 GLU B 51	-3.631	29.077	7.178	1.00	29.72		O
ANISOU	1188	OE2 GLU B 51	1798	7646	1848	-574	-109	496	O
ATOM	1189	N SER B 52	0.937	31.955	10.155	1.00	12.91		N
ANISOU	1189	N SER B 52	1594	1942	1371	565	-112	-41	N
ATOM	1190	CA SER B 52	1.162	32.188	11.568	1.00	13.86		C
ANISOU	1190	CA SER B 52	1803	2224	1239	829	16	3	C
ATOM	1191	C SER B 52	2.446	31.571	12.050	1.00	11.23		C
ANISOU	1191	C SER B 52	1644	1606	1015	490	-15	-248	C
ATOM	1192	O SER B 52	3.348	31.281	11.279	1.00	12.69		O
ANISOU	1192	O SER B 52	1530	2323	969	536	18	38	O
ATOM	1193	CB SER B 52	-0.039	31.678	12.385	1.00	17.92		C
ANISOU	1193	CB SER B 52	1798	3228	1782	1183	378	491	C
ATOM	1194	OG SER B 52	0.019	32.335	13.686	1.00	21.18		O
ANISOU	1194	OG SER B 52	2151	3844	2051	1246	782	98	O
ATOM	1195	N ARG B 53	2.578	31.367	13.353	1.00	11.98		N
ANISOU	1195	N ARG B 53	1302	2157	1095	478	78	-42	N
ATOM	1196	CA ARG B 53	3.823	30.925	13.981	1.00	10.08		C
ANISOU	1196	CA ARG B 53	1146	1626	1060	326	227	147	C
ATOM	1197	C ARG B 53	3.859	29.402	14.118	1.00	10.33		C
ANISOU	1197	C ARG B 53	1257	1623	1044	191	457	35	C
ATOM	1198	O ARG B 53	2.833	28.735	14.336	1.00	11.33		O
ANISOU	1198	O ARG B 53	1225	1881	1199	22	118	151	O
ATOM	1199	CB ARG B 53	3.960	31.597	15.349	1.00	11.61		C
ANISOU	1199	CB ARG B 53	1463	1670	1278	404	-112	-8	C
ATOM	1200	CG ARG B 53	4.257	33.083	15.331	1.00	13.83		C
ANISOU	1200	CG ARG B 53	2274	1677	1302	183	-112	118	C
ATOM	1201	CD ARG B 53	4.171	33.836	16.663	1.00	20.43		C
ANISOU	1201	CD ARG B 53	3996	2354	1412	346	-1819	-429	C

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ATOM	1202	NE	ARG	B	53	4.186	35.272	16.423	1.00	34.31		N
ANISOU	1202	NE	ARG	B	53	6540	2130	4365	107	-589	-1095	N
ATOM	1203	CZ	ARG	B	53	4.361	36.333	17.184	1.00	38.78		C
ANISOU	1203	CZ	ARG	B	53	7777	2651	4307	251	-1554	-1297	C
ATOM	1204	NH1	ARG	B	53	4.333	37.612	16.773	1.00	63.04		N
ANISOU	1204	NH1	ARG	B	53	10590	1920	11441	2096	-4879	-1510	N
ATOM	1205	NH2	ARG	B	53	4.596	36.238	18.501	1.00	47.12		N
ANISOU	1205	NH2	ARG	B	53	4899	9662	3341	336	784	-2242	N
ATOM	1206	N	TYR	B	54	5.072	28.885	14.005	1.00	10.20		N
ANISOU	1206	N	TYR	B	54	1227	1572	1074	263	172	-83	N
ATOM	1207	CA	TYR	B	54	5.399	27.487	14.161	1.00	10.24		C
ANISOU	1207	CA	TYR	B	54	1548	1602	740	297	157	150	C
ATOM	1208	C	TYR	B	54	6.463	27.351	15.260	1.00	9.19		C
ANISOU	1208	C	TYR	B	54	1392	1469	629	-91	282	221	C
ATOM	1209	O	TYR	B	54	7.336	28.207	15.355	1.00	10.27		O
ANISOU	1209	O	TYR	B	54	1657	1132	1114	-113	287	112	O
ATOM	1210	CB	TYR	B	54	5.949	26.815	12.903	1.00	9.11		C
ANISOU	1210	CB	TYR	B	54	1244	1356	862	-58	62	-101	C
ATOM	1211	CG	TYR	B	54	4.887	26.819	11.797	1.00	9.25		C
ANISOU	1211	CG	TYR	B	54	1184	1407	924	68	117	-86	C
ATOM	1212	CD1	TYR	B	54	4.632	27.992	11.103	1.00	9.26		C
ANISOU	1212	CD1	TYR	B	54	1144	1498	875	75	229	5	C
ATOM	1213	CD2	TYR	B	54	4.142	25.706	11.489	1.00	9.28		C
ANISOU	1213	CD2	TYR	B	54	1202	1515	809	-100	92	-90	C
ATOM	1214	CE1	TYR	B	54	3.659	28.011	10.111	1.00	10.00		C
ANISOU	1214	CE1	TYR	B	54	1323	1462	1015	210	66	-106	C
ATOM	1215	CE2	TYR	B	54	3.174	25.721	10.526	1.00	9.41		C
ANISOU	1215	CE2	TYR	B	54	1024	1566	986	47	139	-22	C
ATOM	1216	CZ	TYR	B	54	2.935	26.873	9.818	1.00	9.61		C
ANISOU	1216	CZ	TYR	B	54	1134	1524	992	204	126	-126	C
ATOM	1217	OH	TYR	B	54	1.967	26.919	8.842	1.00	11.90		O
ANISOU	1217	OH	TYR	B	54	1087	1942	1490	100	-135	128	O
ATOM	1218	N	VAL	B	55	6.373	26.264	16.005	1.00	8.42		N
ANISOU	1218	N	VAL	B	55	1069	1349	782	-204	94	198	N
ATOM	1219	CA	VAL	B	55	7.382	25.960	17.013	1.00	9.14		C
ANISOU	1219	CA	VAL	B	55	1153	1287	1031	3	-75	38	C
ATOM	1220	C	VAL	B	55	8.720	25.651	16.359	1.00	8.95		C
ANISOU	1220	C	VAL	B	55	1261	1258	880	93	-101	-111	C
ATOM	1221	O	VAL	B	55	8.760	24.952	15.356	1.00	9.42		O
ANISOU	1221	O	VAL	B	55	1271	1321	989	-274	-77	-185	O
ATOM	1222	CB	VAL	B	55	6.936	24.788	17.882	1.00	9.65		C
ANISOU	1222	CB	VAL	B	55	1279	1390	998	268	-39	186	C
ATOM	1223	CG1	VAL	B	55	8.042	24.366	18.836	1.00	11.05		C
ANISOU	1223	CG1	VAL	B	55	1362	1832	1003	383	-111	118	C
ATOM	1224	CG2	VAL	B	55	5.671	25.128	18.675	1.00	10.08		C
ANISOU	1224	CG2	VAL	B	55	1191	1672	967	73	-28	9	C
ATOM	1225	N	LEU	B	56	9.798	26.146	16.958	1.00	8.84		N
ANISOU	1225	N	LEU	B	56	1139	1348	873	97	3	-319	N
ATOM	1226	CA	LEU	B	56	11.120	25.721	16.566	1.00	9.06		C
ANISOU	1226	CA	LEU	B	56	1232	1529	680	200	139	60	C
ATOM	1227	C	LEU	B	56	11.910	25.328	17.819	1.00	10.16		C
ANISOU	1227	C	LEU	B	56	1328	1879	652	328	99	67	C
ATOM	1228	O	LEU	B	56	11.692	25.862	18.896	1.00	10.49		O
ANISOU	1228	O	LEU	B	56	1568	1602	816	257	-127	-180	O
ATOM	1229	CB	LEU	B	56	11.909	26.787	15.831	1.00	10.97		C
ANISOU	1229	CB	LEU	B	56	1496	1937	736	-156	-6	195	C

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ATOM	1230	CG	LEU	B	56	12.375	28.009	16.561	1.00	12.19		C
ANISOU	1230	CG	LEU	B	56	1504	1854	1275	-149	-294	208	C
ATOM	1231	CD1	LEU	B	56	13.819	27.881	17.057	1.00	11.48		C
ANISOU	1231	CD1	LEU	B	56	1325	1561	1475	208	-95	-253	C
ATOM	1232	CD2	LEU	B	56	12.238	29.229	15.640	1.00	15.47		C
ANISOU	1232	CD2	LEU	B	56	2240	1851	1786	-62	-539	378	C
ATOM	1233	N	THR	B	57	12.882	24.460	17.557	1.00	8.39		N
ANISOU	1233	N	THR	B	57	976	1446	766	-88	-29	-64	N
ATOM	1234	CA	THR	B	57	13.872	24.163	18.584	1.00	8.94		C
ANISOU	1234	CA	THR	B	57	928	1654	815	-39	47	58	C
ATOM	1235	C	THR	B	57	15.186	23.925	17.862	1.00	8.16		C
ANISOU	1235	C	THR	B	57	939	1503	660	-130	-10	12	C
ATOM	1236	O	THR	B	57	15.203	23.490	16.720	1.00	8.98		O
ANISOU	1236	O	THR	B	57	1406	1465	542	156	-7	111	O
ATOM	1237	CB	THR	B	57	13.535	22.954	19.475	1.00	10.01		C
ANISOU	1237	CB	THR	B	57	1225	1671	906	-73	98	166	C
ATOM	1238	OG1	ATHR	B	57	13.398	21.747	18.717	0.50	13.13		O
ANISOU	1238	OG1	ATHR	B	57	2639	1576	774	118	112	233	O
ATOM	1239	OG1	BTHR	B	57	14.412	22.657	20.513	0.50	12.28		O
ANISOU	1239	OG1	BTHR	B	57	1611	1614	1440	-212	-339	321	O
ATOM	1240	CG2	ATHR	B	57	12.303	23.196	20.315	0.50	9.27		C
ANISOU	1240	CG2	ATHR	B	57	947	1193	1384	-220	107	275	C
ATOM	1241	CG2	BTHR	B	57	13.523	21.766	18.469	0.50	9.99		C
ANISOU	1241	CG2	BTHR	B	57	888	1672	1238	43	346	-20	C
ATOM	1242	N	GLY	B	58	16.265	24.182	18.561	1.00	9.19		N
ANISOU	1242	N	GLY	B	58	945	1526	1020	-40	-109	-11	N
ATOM	1243	CA	GLY	B	58	17.602	23.980	18.042	1.00	11.10		C
ANISOU	1243	CA	GLY	B	58	931	2223	1062	178	-131	172	C
ATOM	1244	C	GLY	B	58	18.658	24.008	19.125	1.00	9.16		C
ANISOU	1244	C	GLY	B	58	998	1459	1023	86	-148	64	C
ATOM	1245	O	GLY	B	58	18.370	23.915	20.306	1.00	9.57		O
ANISOU	1245	O	GLY	B	58	1192	1468	977	157	-74	-121	O
ATOM	1246	N	ARG	B	59	19.901	24.143	18.652	1.00	8.98		N
ANISOU	1246	N	ARG	B	59	1038	1477	899	-184	-207	-259	N
ATOM	1247	CA	ARG	B	59	21.062	24.178	19.517	1.00	9.01		C
ANISOU	1247	CA	ARG	B	59	1095	1429	899	-128	-260	-326	C
ATOM	1248	C	ARG	B	59	22.065	25.184	18.949	1.00	9.13		C
ANISOU	1248	C	ARG	B	59	847	1825	797	-33	-462	108	C
ATOM	1249	O	ARG	B	59	22.114	25.451	17.754	1.00	10.34		O
ANISOU	1249	O	ARG	B	59	1417	1768	743	15	-375	10	O
ATOM	1250	CB	ARG	B	59	21.744	22.815	19.650	1.00	10.28		C
ANISOU	1250	CB	ARG	B	59	1321	1527	1057	64	-238	-372	C
ATOM	1251	CG	ARG	B	59	20.859	21.650	20.018	1.00	10.93		C
ANISOU	1251	CG	ARG	B	59	1454	1423	1276	126	-315	-147	C
ATOM	1252	CD	ARG	B	59	20.392	21.684	21.460	1.00	11.05		C
ANISOU	1252	CD	ARG	B	59	1250	1589	1361	46	-282	-146	C
ATOM	1253	NE	ARG	B	59	21.579	21.580	22.325	1.00	11.47		N
ANISOU	1253	NE	ARG	B	59	1375	1786	1198	-166	-308	90	N
ATOM	1254	CZ	ARG	B	59	21.634	21.844	23.609	1.00	11.57		C
ANISOU	1254	CZ	ARG	B	59	1535	1821	1039	361	-102	327	C
ATOM	1255	NH1	ARG	B	59	20.525	22.202	24.208	1.00	13.86		N
ANISOU	1255	NH1	ARG	B	59	1699	1559	2006	297	216	-98	N
ATOM	1256	NH2	ARG	B	59	22.802	21.712	24.205	1.00	12.36		N
ANISOU	1256	NH2	ARG	B	59	1534	2442	722	21	-79	5	N
ATOM	1257	N	TYR	B	60	22.879	25.710	19.867	1.00	9.31		N
ANISOU	1257	N	TYR	B	60	1131	1621	786	-269	-246	-189	N

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ATOM 1258 CA TYR B 60	23.975	26.556	19.453	1.00	9.14		C
ANISOU 1258 CA TYR B 60	945	1540	986	-65	-175	74	C
ATOM 1259 C TYR B 60	25.178	26.318	20.367	1.00	8.73		C
ANISOU 1259 C TYR B 60	1046	1426	844	-166	-209	-124	C
ATOM 1260 O TYR B 60	25.007	25.770	21.461	1.00	10.23		O
ANISOU 1260 O TYR B 60	1126	1914	846	46	-199	-14	O
ATOM 1261 CB TYR B 60	23.605	28.055	19.485	1.00	10.15		C
ANISOU 1261 CB TYR B 60	1270	1575	1010	-29	-182	98	C
ATOM 1262 CG TYR B 60	23.537	28.631	20.888	1.00	10.72		C
ANISOU 1262 CG TYR B 60	1619	1413	1042	-147	-1	143	C
ATOM 1263 CD1 TYR B 60	22.517	28.357	21.771	1.00	11.26		C
ANISOU 1263 CD1 TYR B 60	1334	1895	1048	57	-54	-7	C
ATOM 1264 CD2 TYR B 60	24.545	29.482	21.336	1.00	10.65		C
ANISOU 1264 CD2 TYR B 60	1540	1465	1040	37	84	-176	C
ATOM 1265 CE1 TYR B 60	22.456	28.872	23.048	1.00	11.42		C
ANISOU 1265 CE1 TYR B 60	1696	1578	1064	28	17	62	C
ATOM 1266 CE2 TYR B 60	24.504	30.016	22.597	1.00	10.72		C
ANISOU 1266 CE2 TYR B 60	1225	1948	899	305	-120	-97	C
ATOM 1267 CZ TYR B 60	23.460	29.709	23.445	1.00	11.59		C
ANISOU 1267 CZ TYR B 60	1420	2159	826	151	-91	-112	C
ATOM 1268 OH TYR B 60	23.482	30.279	24.689	1.00	14.36		O
ANISOU 1268 OH TYR B 60	2095	2364	998	163	147	-422	O
ATOM 1269 N ASP B 61	26.356	26.712	19.899	1.00	9.15		N
ANISOU 1269 N ASP B 61	925	1240	1311	-80	-169	-106	N
ATOM 1270 CA ASP B 61	27.585	26.630	20.682	1.00	9.34		C
ANISOU 1270 CA ASP B 61	1015	1491	1043	49	-156	-231	C
ATOM 1271 C ASP B 61	27.580	27.703	21.764	1.00	10.04		C
ANISOU 1271 C ASP B 61	1486	1418	911	67	-138	-173	C
ATOM 1272 O ASP B 61	27.746	28.878	21.499	1.00	11.42		O
ANISOU 1272 O ASP B 61	1574	1486	1278	-112	-209	-6	O
ATOM 1273 CB ASP B 61	28.780	26.831	19.758	1.00	11.26		C
ANISOU 1273 CB ASP B 61	997	1956	1326	36	-14	-386	C
ATOM 1274 CG ASP B 61	30.124	26.755	20.455	1.00	10.61		C
ANISOU 1274 CG ASP B 61	1063	2041	927	16	6	-282	C
ATOM 1275 OD1 ASP B 61	30.096	26.511	21.682	1.00	11.43		O
ANISOU 1275 OD1 ASP B 61	1538	1850	955	174	183	-178	O
ATOM 1276 OD2 ASP B 61	31.135	26.924	19.738	1.00	11.46		O
ANISOU 1276 OD2 ASP B 61	1086	2397	871	-111	22	-295	O
ATOM 1277 N SER B 62	27.399	27.268	22.978	1.00	9.74		N
ANISOU 1277 N SER B 62	1236	1386	1077	-162	112	-205	N
ATOM 1278 CA SER B 62	27.281	28.171	24.140	1.00	12.30		C
ANISOU 1278 CA SER B 62	1518	2174	981	-115	-23	-417	C
ATOM 1279 C SER B 62	28.632	28.553	24.715	1.00	13.34		C
ANISOU 1279 C SER B 62	1704	2553	811	-163	-219	-253	C
ATOM 1280 O SER B 62	28.657	29.248	25.713	1.00	16.84		O
ANISOU 1280 O SER B 62	1983	3526	888	-259	-236	-647	O
ATOM 1281 CB SER B 62	26.351	27.571	25.185	1.00	12.27		C
ANISOU 1281 CB SER B 62	1520	2211	932	258	-7	-107	C
ATOM 1282 OG SER B 62	26.587	26.243	25.517	1.00	14.91		O
ANISOU 1282 OG SER B 62	2199	2058	1408	91	-185	-150	O
ATOM 1283 N ALA B 63	29.728	28.161	24.069	1.00	13.74		N
ANISOU 1283 N ALA B 63	1527	2444	1249	-185	-299	-432	N
ATOM 1284 CA ALA B 63	31.082	28.579	24.437	1.00	14.32		C
ANISOU 1284 CA ALA B 63	1641	2379	1422	-326	-450	-98	C
ATOM 1285 C ALA B 63	31.916	28.701	23.162	1.00	13.62		C
ANISOU 1285 C ALA B 63	1333	2422	1419	-57	-487	-190	C

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ATOM 1286 O ALA B 63	32.863	27.954	22.941	1.00	15.44	O
ANISOU 1286 O ALA B 63	1511	2389	1965	95	-463 -81	O
ATOM 1287 CB ALA B 63	31.703	27.624	25.424	1.00	15.96	C
ANISOU 1287 CB ALA B 63	2293	2431	1341	-220	-804 -238	C
ATOM 1288 N PRO B 64	31.560	29.673	22.331	1.00	14.11	N
ANISOU 1288 N PRO B 64	1406	2422	1532	148	-63 -72	N
ATOM 1289 CA PRO B 64	32.255	29.819	21.032	1.00	13.81	C
ANISOU 1289 CA PRO B 64	1378	2414	1455	-62	-122 -278	C
ATOM 1290 C PRO B 64	33.719	30.173	21.240	1.00	16.46	C
ANISOU 1290 C PRO B 64	1523	3355	1378	-329	-35 -690	C
ATOM 1291 O PRO B 64	34.190	30.582	22.318	1.00	19.37	O
ANISOU 1291 O PRO B 64	1794	3893	1672	-498	-251 -923	O
ATOM 1292 CB PRO B 64	31.489	30.934	20.321	1.00	17.79	C
ANISOU 1292 CB PRO B 64	2212	2934	1611	237	-95 159	C
ATOM 1293 CG PRO B 64	30.865	31.729	21.435	1.00	18.16	C
ANISOU 1293 CG PRO B 64	1965	2533	2402	311	621 419	C
ATOM 1294 CD PRO B 64	30.536	30.711	22.508	1.00	16.42	C
ANISOU 1294 CD PRO B 64	1648	2343	2248	169	479 229	C
ATOM 1295 N ALA B 65	34.466	30.023	20.166	1.00	16.93	N
ANISOU 1295 N ALA B 65	1599	3192	1640	-339	271 -549	N
ATOM 1296 CA ALA B 65	35.899	30.353	20.157	1.00	20.48	C
ANISOU 1296 CA ALA B 65	1704	3604	2474	-597	343 -1364	C
ATOM 1297 C ALA B 65	36.034	31.856	20.346	1.00	25.60	C
ANISOU 1297 C ALA B 65	3186	3622	2919	-1232	623 -1155	C
ATOM 1298 O ALA B 65	35.146	32.660	20.087	1.00	25.55	O
ANISOU 1298 O ALA B 65	3924	3137	2646	-970	755 -1252	O
ATOM 1299 CB ALA B 65	36.571	29.897	18.877	1.00	18.10	C
ANISOU 1299 CB ALA B 65	1163	3936	1778	-264	13 -612	C
ATOM 1300 N THR B 66	37.213	32.207	20.831	1.00	30.78	N
ANISOU 1300 N THR B 66	3348	4078	4268	-1764	647 -1397	N
ATOM 1301 CA THR B 66	37.394	33.624	21.140	1.00	31.37	C
ANISOU 1301 CA THR B 66	4571	4002	3346	-2139	554 -982	C
ATOM 1302 C THR B 66	38.418	34.193	20.160	1.00	28.90	C
ANISOU 1302 C THR B 66	3476	3725	3779	-1281	812 -1200	C
ATOM 1303 O THR B 66	39.162	35.127	20.507	1.00	37.49	O
ANISOU 1303 O THR B 66	4766	6230	3249	-3186	1035 -1595	O
ATOM 1304 CB THR B 66	37.828	33.905	22.586	1.00	33.80	C
ANISOU 1304 CB THR B 66	5361	4104	3376	-1259	129 -1012	C
ATOM 1305 OG1 THR B 66	38.752	32.897	23.007	1.00	42.83	O
ANISOU 1305 OG1 THR B 66	4748	5899	5629	-250	-1403 -2611	O
ATOM 1306 CG2 THR B 66	36.637	33.857	23.543	1.00	34.41	C
ANISOU 1306 CG2 THR B 66	4506	6293	2274	-161	-857 568	C
ATOM 1307 N ASP B 67	38.452	33.652	18.955	1.00	26.12	N
ANISOU 1307 N ASP B 67	2961	3066	3899	-841	763 -1200	N
ATOM 1308 CA ASP B 67	39.346	34.199	17.951	1.00	21.73	C
ANISOU 1308 CA ASP B 67	2237	2523	3497	-303	249 -1040	C
ATOM 1309 C ASP B 67	38.639	34.977	16.866	1.00	25.89	C
ANISOU 1309 C ASP B 67	3191	2314	4333	59	-167 -879	C
ATOM 1310 O ASP B 67	39.161	35.188	15.770	1.00	24.99	O
ANISOU 1310 O ASP B 67	2382	2833	4280	-241	-717 -295	O
ATOM 1311 CB ASP B 67	40.061	33.029	17.283	1.00	20.35	C
ANISOU 1311 CB ASP B 67	1962	2863	2909	-23	-556 -1263	C
ATOM 1312 CG ASP B 67	39.059	32.094	16.633	1.00	17.71	C
ANISOU 1312 CG ASP B 67	1598	2872	2260	-171	-108 -968	C
ATOM 1313 OD1 ASP B 67	37.852	32.294	16.757	1.00	17.75	O
ANISOU 1313 OD1 ASP B 67	1623	3095	2025	-418	379 -625	O

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ATOM 1314 OD2 ASP B 67	39.551	31.141	16.003	1.00	20.12		O
ANISOU 1314 OD2 ASP B 67	1917	3067	2663	-289	-10	-1377	O
ATOM 1315 N GLY B 68	37.406	35.415	17.131	1.00	24.25		N
ANISOU 1315 N GLY B 68	3073	2120	4019	-61	-561	-1333	N
ATOM 1316 CA GLY B 68	36.763	36.161	16.056	1.00	25.90		C
ANISOU 1316 CA GLY B 68	3276	1900	4663	-414	-836	-928	C
ATOM 1317 C GLY B 68	35.793	35.326	15.250	1.00	24.53		C
ANISOU 1317 C GLY B 68	2804	2211	4306	-722	-625	-612	C
ATOM 1318 O GLY B 68	35.073	35.808	14.378	1.00	24.92		O
ANISOU 1318 O GLY B 68	2840	2517	4113	-880	-370	-157	O
ATOM 1319 N SER B 69	35.768	34.027	15.542	1.00	19.36		N
ANISOU 1319 N SER B 69	1701	2269	3387	-682	59	-665	N
ATOM 1320 CA SER B 69	34.848	33.185	14.802	1.00	14.51		C
ANISOU 1320 CA SER B 69	1560	2092	1861	-796	253	105	C
ATOM 1321 C SER B 69	33.407	33.364	15.267	1.00	14.31		C
ANISOU 1321 C SER B 69	1652	2130	1654	-680	252	9	C
ATOM 1322 O SER B 69	33.051	33.729	16.390	1.00	16.07		O
ANISOU 1322 O SER B 69	1750	2426	1930	57	-101	-628	O
ATOM 1323 CB SER B 69	35.256	31.724	14.983	1.00	15.51		C
ANISOU 1323 CB SER B 69	1416	2095	2380	-791	25	20	C
ATOM 1324 OG SER B 69	36.572	31.471	14.552	1.00	17.53		O
ANISOU 1324 OG SER B 69	1731	2943	1988	-344	204	-151	O
ATOM 1325 N GLY B 70	32.513	33.079	14.334	1.00	12.85		N
ANISOU 1325 N GLY B 70	1473	1953	1457	-224	396	-268	N
ATOM 1326 CA GLY B 70	31.120	33.089	14.708	1.00	11.42		C
ANISOU 1326 CA GLY B 70	1455	1595	1289	217	342	94	C
ATOM 1327 C GLY B 70	30.702	31.909	15.559	1.00	10.03		C
ANISOU 1327 C GLY B 70	1118	1674	1019	218	45	67	C
ATOM 1328 O GLY B 70	31.494	31.018	15.875	1.00	11.33		O
ANISOU 1328 O GLY B 70	983	1645	1678	106	-70	186	O
ATOM 1329 N THR B 71	29.408	31.932	15.903	1.00	9.97		N
ANISOU 1329 N THR B 71	1090	1639	1057	175	121	-96	N
ATOM 1330 CA THR B 71	28.826	30.963	16.826	1.00	10.03		C
ANISOU 1330 CA THR B 71	1213	1733	864	-109	-36	-188	C
ATOM 1331 C THR B 71	27.978	29.976	16.039	1.00	9.68		C
ANISOU 1331 C THR B 71	1148	1629	902	180	-195	-369	C
ATOM 1332 O THR B 71	26.917	30.343	15.501	1.00	10.27		O
ANISOU 1332 O THR B 71	1282	1442	1177	96	-309	80	O
ATOM 1333 CB THR B 71	27.975	31.664	17.890	1.00	9.79		C
ANISOU 1333 CB THR B 71	1430	1403	886	-149	29	-244	C
ATOM 1334 OG1 THR B 71	28.844	32.510	18.666	1.00	13.40		O
ANISOU 1334 OG1 THR B 71	1826	1972	1292	-521	-115	-475	O
ATOM 1335 CG2 THR B 71	27.340	30.653	18.838	1.00	14.13		C
ANISOU 1335 CG2 THR B 71	1647	2383	1340	-587	366	-9	C
ATOM 1336 N ALA B 72	28.395	28.702	15.967	1.00	9.82		N
ANISOU 1336 N ALA B 72	1036	1560	1134	94	-138	-126	N
ATOM 1337 CA ALA B 72	27.617	27.740	15.225	1.00	9.88		C
ANISOU 1337 CA ALA B 72	1330	1546	878	-102	-52	-109	C
ATOM 1338 C ALA B 72	26.268	27.475	15.869	1.00	8.75		C
ANISOU 1338 C ALA B 72	1303	1221	802	-31	-110	-128	C
ATOM 1339 O ALA B 72	26.113	27.413	17.075	1.00	10.09		O
ANISOU 1339 O ALA B 72	1338	1701	792	-37	-127	-12	O
ATOM 1340 CB ALA B 72	28.379	26.423	15.099	1.00	10.52		C
ANISOU 1340 CB ALA B 72	1249	1707	1043	-74	20	-294	C
ATOM 1341 N LEU B 73	25.277	27.234	15.008	1.00	9.28		N
ANISOU 1341 N LEU B 73	1306	1332	889	-73	-152	-187	N

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ATOM	1342	CA	LEU	B	73	23.930	26.940	15.487	1.00	8.15		C
ANISOU	1342	CA	LEU	B	73	1316	926	856	28	-129	170	C
ATOM	1343	C	LEU	B	73	23.131	26.209	14.421	1.00	8.77		C
ANISOU	1343	C	LEU	B	73	1067	1387	877	-3	42	-69	C
ATOM	1344	O	LEU	B	73	23.492	26.162	13.250	1.00	9.75		O
ANISOU	1344	O	LEU	B	73	1172	1673	859	-286	23	-10	O
ATOM	1345	CB	LEU	B	73	23.254	28.237	15.930	1.00	11.54		C
ANISOU	1345	CB	LEU	B	73	1336	1369	1680	417	-610	-336	C
ATOM	1346	CG	LEU	B	73	23.132	29.399	14.920	1.00	16.02		C
ANISOU	1346	CG	LEU	B	73	2736	1222	2127	969	-984	-286	C
ATOM	1347	CD1	LEU	B	73	22.248	29.244	13.730	1.00	23.76		C
ANISOU	1347	CD1	LEU	B	73	4415	2831	1781	987	-1359	-285	C
ATOM	1348	CD2	LEU	B	73	22.648	30.636	15.723	1.00	22.51		C
ANISOU	1348	CD2	LEU	B	73	5420	1723	1409	1587	-382	-91	C
ATOM	1349	N	GLY	B	74	21.964	25.762	14.873	1.00	8.48		N
ANISOU	1349	N	GLY	B	74	921	1611	692	142	-96	21	N
ATOM	1350	CA	GLY	B	74	20.990	25.198	13.949	1.00	8.57		C
ANISOU	1350	CA	GLY	B	74	970	1269	1016	207	-202	-98	C
ATOM	1351	C	GLY	B	74	19.636	25.126	14.617	1.00	7.16		C
ANISOU	1351	C	GLY	B	74	1099	826	795	-34	-184	-262	C
ATOM	1352	O	GLY	B	74	19.591	25.080	15.846	1.00	9.04		O
ANISOU	1352	O	GLY	B	74	1290	1373	771	-73	-313	-43	O
ATOM	1353	N	TRP	B	75	18.585	25.065	13.811	1.00	7.97		N
ANISOU	1353	N	TRP	B	75	1006	1347	676	213	-174	80	N
ATOM	1354	CA	TRP	B	75	17.242	24.817	14.363	1.00	8.46		C
ANISOU	1354	CA	TRP	B	75	1015	1466	732	201	-97	-162	C
ATOM	1355	C	TRP	B	75	16.339	24.141	13.323	1.00	7.99		C
ANISOU	1355	C	TRP	B	75	1199	1129	707	-23	11	-61	C
ATOM	1356	O	TRP	B	75	16.660	24.154	12.133	1.00	8.41		O
ANISOU	1356	O	TRP	B	75	1013	1493	689	103	53	-100	O
ATOM	1357	CB	TRP	B	75	16.608	26.078	14.906	1.00	7.46		C
ANISOU	1357	CB	TRP	B	75	888	1137	810	-85	-31	-58	C
ATOM	1358	CG	TRP	B	75	16.231	27.106	13.893	1.00	7.88		C
ANISOU	1358	CG	TRP	B	75	1127	1212	655	-114	-50	-77	C
ATOM	1359	CD1	TRP	B	75	15.017	27.248	13.280	1.00	10.20		C
ANISOU	1359	CD1	TRP	B	75	1207	1840	828	-152	-136	344	C
ATOM	1360	CD2	TRP	B	75	17.066	28.152	13.395	1.00	8.13		C
ANISOU	1360	CD2	TRP	B	75	991	1026	1073	205	280	21	C
ATOM	1361	NE1	TRP	B	75	15.036	28.306	12.424	1.00	10.19		N
ANISOU	1361	NE1	TRP	B	75	1529	1274	1068	-77	-274	55	N
ATOM	1362	CE2	TRP	B	75	16.282	28.880	12.459	1.00	9.49		C
ANISOU	1362	CE2	TRP	B	75	1245	1235	1128	176	88	119	C
ATOM	1363	CE3	TRP	B	75	18.408	28.554	13.620	1.00	9.85		C
ANISOU	1363	CE3	TRP	B	75	1252	1195	1294	-140	10	28	C
ATOM	1364	CZ2	TRP	B	75	16.767	29.976	11.755	1.00	9.66		C
ANISOU	1364	CZ2	TRP	B	75	1217	1514	941	266	364	215	C
ATOM	1365	CZ3	TRP	B	75	18.844	29.649	12.894	1.00	10.65		C
ANISOU	1365	CZ3	TRP	B	75	1105	1281	1660	-20	219	175	C
ATOM	1366	CH2	TRP	B	75	18.048	30.352	11.980	1.00	10.80		C
ANISOU	1366	CH2	TRP	B	75	1254	1476	1375	199	371	183	C
ATOM	1367	N	THR	B	76	15.224	23.641	13.834	1.00	7.76		N
ANISOU	1367	N	THR	B	76	1163	1184	602	25	50	-84	N
ATOM	1368	CA	THR	B	76	14.234	22.954	13.019	1.00	8.13		C
ANISOU	1368	CA	THR	B	76	1173	1337	578	-52	91	-122	C
ATOM	1369	C	THR	B	76	12.848	23.521	13.236	1.00	7.68		C
ANISOU	1369	C	THR	B	76	1163	1121	634	-133	82	-182	C

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ATOM	1370	O	THR	B	76	12.516	23.840	14.366	1.00	8.57	O	
ANISOU	1370	O	THR	B	76	1019	1557	678	-66	71	-140	O
ATOM	1371	CB	THR	B	76	14.159	21.453	13.394	1.00	8.02	C	
ANISOU	1371	CB	THR	B	76	785	1363	901	-143	73	56	C
ATOM	1372	OG1	THR	B	76	15.443	20.868	13.254	1.00	9.74	O	
ANISOU	1372	OG1	THR	B	76	1004	1482	1216	-36	238	120	O
ATOM	1373	CG2	THR	B	76	13.209	20.679	12.502	1.00	8.47	C	
ANISOU	1373	CG2	THR	B	76	1322	1190	707	-30	-99	16	C
ATOM	1374	N	VAL	B	77	12.101	23.586	12.147	1.00	8.58	N	
ANISOU	1374	N	VAL	B	77	1156	1413	690	-21	60	-53	N
ATOM	1375	CA	VAL	B	77	10.673	23.810	12.167	1.00	8.53	C	
ANISOU	1375	CA	VAL	B	77	1044	1226	971	-140	222	83	C
ATOM	1376	C	VAL	B	77	9.976	22.659	11.454	1.00	8.46	C	
ANISOU	1376	C	VAL	B	77	1097	1337	781	-43	87	37	C
ATOM	1377	O	VAL	B	77	10.328	22.408	10.305	1.00	10.26	O	
ANISOU	1377	O	VAL	B	77	984	2027	888	-132	131	-117	O
ATOM	1378	CB	VAL	B	77	10.271	25.113	11.467	1.00	8.72	C	
ANISOU	1378	CB	VAL	B	77	1056	1360	896	-117	125	105	C
ATOM	1379	CG1	VAL	B	77	8.778	25.264	11.278	1.00	10.64	C	
ANISOU	1379	CG1	VAL	B	77	1201	1642	1201	200	-114	-420	C
ATOM	1380	CG2	VAL	B	77	10.758	26.306	12.297	1.00	9.06	C	
ANISOU	1380	CG2	VAL	B	77	1319	1170	951	-165	-18	260	C
ATOM	1381	N	ALA	B	78	9.032	22.008	12.078	1.00	8.10	N	
ANISOU	1381	N	ALA	B	78	1050	1259	770	-102	29	-26	N
ATOM	1382	CA	ALA	B	78	8.080	21.159	11.378	1.00	9.13	C	
ANISOU	1382	CA	ALA	B	78	1142	1399	929	-109	-113	-45	C
ATOM	1383	C	ALA	B	78	6.832	22.006	11.087	1.00	8.68	C	
ANISOU	1383	C	ALA	B	78	1249	1097	953	-189	-228	-275	C
ATOM	1384	O	ALA	B	78	6.304	22.643	11.999	1.00	9.72	O	
ANISOU	1384	O	ALA	B	78	1326	1580	787	-1	36	-111	O
ATOM	1385	CB	ALA	B	78	7.725	19.876	12.128	1.00	12.06	C	
ANISOU	1385	CB	ALA	B	78	1453	1288	1840	-196	-42	108	C
ATOM	1386	N	TRP	B	79	6.406	21.972	9.820	1.00	9.44	N	
ANISOU	1386	N	TRP	B	79	1007	1738	843	-35	-66	-137	N
ATOM	1387	CA	TRP	B	79	5.405	22.953	9.370	1.00	10.43	C	
ANISOU	1387	CA	TRP	B	79	957	2083	922	77	26	10	C
ATOM	1388	C	TRP	B	79	3.959	22.524	9.608	1.00	9.50	C	
ANISOU	1388	C	TRP	B	79	1041	1609	960	37	-54	13	C
ATOM	1389	O	TRP	B	79	3.118	22.513	8.721	1.00	9.68	O	
ANISOU	1389	O	TRP	B	79	1101	1574	1004	-56	-155	-1	O
ATOM	1390	CB	TRP	B	79	5.656	23.267	7.903	1.00	10.49	C	
ANISOU	1390	CB	TRP	B	79	1411	1634	939	-367	-73	55	C
ATOM	1391	CG	TRP	B	79	7.017	23.883	7.693	1.00	8.82	C	
ANISOU	1391	CG	TRP	B	79	1212	1304	834	-21	-163	73	C
ATOM	1392	CD1	TRP	B	79	8.147	23.269	7.218	1.00	9.60	C	
ANISOU	1392	CD1	TRP	B	79	1287	1460	902	-27	-199	-297	C
ATOM	1393	CD2	TRP	B	79	7.356	25.254	7.946	1.00	9.01	C	
ANISOU	1393	CD2	TRP	B	79	1099	1323	999	-44	4	-32	C
ATOM	1394	NE1	TRP	B	79	9.141	24.205	7.188	1.00	9.65	N	
ANISOU	1394	NE1	TRP	B	79	1133	1380	1153	117	-243	-192	N
ATOM	1395	CE2	TRP	B	79	8.714	25.423	7.622	1.00	8.63	C	
ANISOU	1395	CE2	TRP	B	79	1112	1266	902	57	30	51	C
ATOM	1396	CE3	TRP	B	79	6.614	26.338	8.435	1.00	9.98	C	
ANISOU	1396	CE3	TRP	B	79	1233	1313	1247	196	44	167	C
ATOM	1397	CZ2	TRP	B	79	9.355	26.639	7.762	1.00	9.17	C	
ANISOU	1397	CZ2	TRP	B	79	989	1239	1256	110	-19	25	C

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ATOM 1398 CZ3 TRP B 79	7.262	27.538	8.570	1.00	9.67		C
ANISOU 1398 CZ3 TRP B 79	1293	1358	1023	197	146	-79	C
ATOM 1399 CH2 TRP B 79	8.614	27.689	8.238	1.00	9.25		C
ANISOU 1399 CH2 TRP B 79	1342	1258	915	193	290	159	C
ATOM 1400 N LYS B 80	3.718	22.226	10.889	1.00	9.68		N
ANISOU 1400 N LYS B 80	994	1653	1030	-36	-1	150	N
ATOM 1401 CA LYS B 80	2.411	21.887	11.387	1.00	9.66		C
ANISOU 1401 CA LYS B 80	986	1396	1291	0	107	-39	C
ATOM 1402 C LYS B 80	2.108	22.823	12.549	1.00	10.27		C
ANISOU 1402 C LYS B 80	992	1674	1235	-16	36	-153	C
ATOM 1403 O LYS B 80	2.917	22.968	13.461	1.00	11.02		O
ANISOU 1403 O LYS B 80	1138	1763	1287	-20	-3	-140	O
ATOM 1404 CB LYS B 80	2.332	20.438	11.852	1.00	10.70		C
ANISOU 1404 CB LYS B 80	760	1492	1814	215	237	217	C
ATOM 1405 CG LYS B 80	1.028	20.044	12.491	1.00	16.20		C
ANISOU 1405 CG LYS B 80	1219	2209	2726	-200	691	523	C
ATOM 1406 CD LYS B 80	0.997	18.635	13.081	1.00	16.57		C
ANISOU 1406 CD LYS B 80	1536	2316	2442	-416	214	593	C
ATOM 1407 CE LYS B 80	-0.270	18.397	13.897	1.00	25.29		C
ANISOU 1407 CE LYS B 80	2737	2293	4578	-806	1638	689	C
ATOM 1408 NZ LYS B 80	-0.578	19.435	14.942	1.00	44.83		N
ANISOU 1408 NZ LYS B 80	5232	4897	6905	-1707	4279	-1356	N
ATOM 1409 N ASN B 81	0.951	23.439	12.487	1.00	10.36		N
ANISOU 1409 N ASN B 81	1129	1661	1147	79	143	-116	N
ATOM 1410 CA ASN B 81	0.474	24.217	13.617	1.00	10.84		C
ANISOU 1410 CA ASN B 81	1181	1721	1218	-229	596	-80	C
ATOM 1411 C ASN B 81	-1.043	24.058	13.615	1.00	10.73		C
ANISOU 1411 C ASN B 81	1140	1817	1118	-10	269	84	C
ATOM 1412 O ASN B 81	-1.586	23.161	12.998	1.00	13.12		O
ANISOU 1412 O ASN B 81	1345	2029	1611	-255	130	3	O
ATOM 1413 CB ASN B 81	0.973	25.663	13.611	1.00	9.97		C
ANISOU 1413 CB ASN B 81	1044	1494	1250	210	290	-25	C
ATOM 1414 CG ASN B 81	0.446	26.479	12.447	1.00	10.90		C
ANISOU 1414 CG ASN B 81	1415	1820	908	117	343	-25	C
ATOM 1415 OD1 ASN B 81	-0.451	26.072	11.720	1.00	11.89		O
ANISOU 1415 OD1 ASN B 81	1284	2168	1068	62	277	59	O
ATOM 1416 ND2 ASN B 81	1.013	27.669	12.290	1.00	11.39		N
ANISOU 1416 ND2 ASN B 81	1265	1829	1234	214	274	205	N
ATOM 1417 N ASN B 82	-1.737	24.910	14.369	1.00	14.09		N
ANISOU 1417 N ASN B 82	1088	2450	1814	13	407	-274	N
ATOM 1418 CA ASN B 82	-3.165	24.829	14.528	1.00	15.47		C
ANISOU 1418 CA ASN B 82	1075	2853	1947	162	449	27	C
ATOM 1419 C ASN B 82	-3.881	25.254	13.261	1.00	17.17		C
ANISOU 1419 C ASN B 82	1264	3247	2015	-438	47	-128	C
ATOM 1420 O ASN B 82	-5.095	25.082	13.148	1.00	21.19		O
ANISOU 1420 O ASN B 82	1223	4227	2603	-300	-5	306	O
ATOM 1421 CB ASN B 82	-3.640	25.765	15.650	1.00	22.98		C
ANISOU 1421 CB ASN B 82	1861	4856	2015	949	567	-628	C
ATOM 1422 CG ASN B 82	-3.303	25.354	17.051	1.00	33.70		C
ANISOU 1422 CG ASN B 82	3977	6872	1954	977	427	-327	C
ATOM 1423 OD1 ASN B 82	-3.068	24.173	17.307	1.00	36.66		O
ANISOU 1423 OD1 ASN B 82	3769	6995	3164	-817	744	1782	O
ATOM 1424 ND2 ASN B 82	-3.278	26.329	17.959	1.00	51.80		N
ANISOU 1424 ND2 ASN B 82	6913	10493	2275	3584	516	-2453	N
ATOM 1425 N TYR B 83	-3.167	25.857	12.332	1.00	14.25		N
ANISOU 1425 N TYR B 83	1329	2568	1517	150	272	-461	N

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ATOM 1426 CA TYR B 83	-3.845	26.356	11.148	1.00	13.26	C
ANISOU 1426 CA TYR B 83	748	2523	1768	380	152 -577	C
ATOM 1427 C TYR B 83	-3.622	25.499	9.934	1.00	13.90	C
ANISOU 1427 C TYR B 83	997	2704	1581	378	87 -502	C
ATOM 1428 O TYR B 83	-4.476	25.441	9.056	1.00	16.63	O
ANISOU 1428 O TYR B 83	1512	2867	1939	478	-295 -633	O
ATOM 1429 CB TYR B 83	-3.368	27.781	10.815	1.00	14.78	C
ANISOU 1429 CB TYR B 83	1268	2631	1718	280	29 -370	C
ATOM 1430 CG TYR B 83	-3.650	28.620	12.039	1.00	15.82	C
ANISOU 1430 CG TYR B 83	1193	2615	2202	388	-225 -757	C
ATOM 1431 CD1 TYR B 83	-4.909	29.143	12.268	1.00	19.61	C
ANISOU 1431 CD1 TYR B 83	1518	3088	2843	943	-618 -1400	C
ATOM 1432 CD2 TYR B 83	-2.636	28.831	12.929	1.00	14.43	C
ANISOU 1432 CD2 TYR B 83	1202	2562	1719	282	-85 -236	C
ATOM 1433 CE1 TYR B 83	-5.145	29.901	13.391	1.00	17.93	C
ANISOU 1433 CE1 TYR B 83	1323	2696	2792	392	-260 -1192	C
ATOM 1434 CE2 TYR B 83	-2.874	29.573	14.050	1.00	15.24	C
ANISOU 1434 CE2 TYR B 83	1492	2602	1696	422	-245 -272	C
ATOM 1435 CZ TYR B 83	-4.126	30.095	14.270	1.00	16.37	C
ANISOU 1435 CZ TYR B 83	1413	2742	2066	298	-130 -653	C
ATOM 1436 OH TYR B 83	-4.351	30.844	15.402	1.00	22.69	O
ANISOU 1436 OH TYR B 83	1636	4270	2716	276	-64 -1616	O
ATOM 1437 N ARG B 84	-2.488	24.880	9.803	1.00	14.80	N
ANISOU 1437 N ARG B 84	1582	2643	1398	884	52 -498	N
ATOM 1438 CA ARG B 84	-2.075	24.210	8.590	1.00	14.45	C
ANISOU 1438 CA ARG B 84	1358	2561	1570	516	-99 -737	C
ATOM 1439 C ARG B 84	-1.048	23.110	8.868	1.00	12.76	C
ANISOU 1439 C ARG B 84	371	2518	1959	114	176 -786	C
ATOM 1440 O ARG B 84	-0.331	23.180	9.861	1.00	13.70	O
ANISOU 1440 O ARG B 84	1181	2256	1769	412	-24 -494	O
ATOM 1441 CB ARG B 84	-1.354	25.163	7.624	1.00	20.40	C
ANISOU 1441 CB ARG B 84	2223	3834	1696	755	343 35	C
ATOM 1442 CG ARG B 84	-2.205	26.281	7.078	1.00	24.13	C
ANISOU 1442 CG ARG B 84	3016	3681	2473	664	161 382	C
ATOM 1443 CD ARG B 84	-1.312	26.853	6.010	1.00	22.38	C
ANISOU 1443 CD ARG B 84	3397	2099	3008	-1422	-208 -354	C
ATOM 1444 NE ARG B 84	-1.937	28.049	5.552	1.00	24.41	N
ANISOU 1444 NE ARG B 84	2059	3166	4049	-899	588 375	N
ATOM 1445 CZ ARG B 84	-1.692	28.590	4.381	1.00	24.80	C
ANISOU 1445 CZ ARG B 84	1720	3502	4202	61	766 762	C
ATOM 1446 NH1 ARG B 84	-2.360	29.698	4.139	1.00	29.85	N
ANISOU 1446 NH1 ARG B 84	3148	5211	2984	1886	-355 24	N
ATOM 1447 NH2 ARG B 84	-0.823	28.055	3.525	1.00	22.06	N
ANISOU 1447 NH2 ARG B 84	2238	3668	2478	634	-808 -305	N
ATOM 1448 N ASN B 85	-0.966	22.112	8.012	1.00	12.83	N
ANISOU 1448 N ASN B 85	1214	1982	1678	186	0 -319	N
ATOM 1449 CA ASN B 85	0.112	21.138	8.056	1.00	11.53	C
ANISOU 1449 CA ASN B 85	1189	1868	1325	118	68 -214	C
ATOM 1450 C ASN B 85	0.605	20.882	6.647	1.00	11.98	C
ANISOU 1450 C ASN B 85	1151	2134	1268	28	8 -269	C
ATOM 1451 O ASN B 85	-0.100	20.336	5.807	1.00	15.42	O
ANISOU 1451 O ASN B 85	1331	3159	1367	-15	-229 -419	O
ATOM 1452 CB ASN B 85	-0.404	19.858	8.678	1.00	11.99	C
ANISOU 1452 CB ASN B 85	1098	1961	1497	51	84 -165	C
ATOM 1453 CG ASN B 85	0.765	18.929	8.965	1.00	11.12	C
ANISOU 1453 CG ASN B 85	1014	1866	1346	38	383 -99	C

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ATOM	1454	OD1 ASN B 85	1.890	19.210	8.567	1.00	13.00		O
ANISOU	1454	OD1 ASN B 85	947	2346	1646	-170	289	-130	O
ATOM	1455	ND2 ASN B 85	0.452	17.840	9.628	1.00	13.84		N
ANISOU	1455	ND2 ASN B 85	1379	2284	1595	-6	268	386	N
ATOM	1456	N ALA B 86	1.831	21.269	6.390	1.00	12.45		N
ANISOU	1456	N ALA B 86	1325	2147	1259	-100	74	-92	N
ATOM	1457	CA ALA B 86	2.448	21.156	5.071	1.00	12.05		C
ANISOU	1457	CA ALA B 86	1350	2035	1192	78	64	3	C
ATOM	1458	C ALA B 86	3.180	19.834	4.873	1.00	11.24		C
ANISOU	1458	C ALA B 86	1123	1909	1239	-79	-203	-89	C
ATOM	1459	O ALA B 86	3.693	19.538	3.784	1.00	12.76		O
ANISOU	1459	O ALA B 86	1741	1845	1263	20	-41	-137	O
ATOM	1460	CB ALA B 86	3.416	22.336	4.832	1.00	14.97		C
ANISOU	1460	CB ALA B 86	1756	1869	2063	162	726	21	C
ATOM	1461	N HIS B 87	3.227	19.045	5.941	1.00	11.53		N
ANISOU	1461	N HIS B 87	1335	1824	1223	-87	-48	-143	N
ATOM	1462	CA HIS B 87	3.909	17.749	5.938	1.00	11.22		C
ANISOU	1462	CA HIS B 87	1192	1602	1469	-337	0	-96	C
ATOM	1463	C HIS B 87	5.344	17.892	5.440	1.00	10.51		C
ANISOU	1463	C HIS B 87	1115	1987	892	-201	-216	-282	C
ATOM	1464	O HIS B 87	5.770	17.257	4.490	1.00	13.31		O
ANISOU	1464	O HIS B 87	1298	2403	1354	-282	-168	-812	O
ATOM	1465	CB HIS B 87	3.143	16.750	5.083	1.00	11.99		C
ANISOU	1465	CB HIS B 87	1347	1747	1460	-519	89	-108	C
ATOM	1466	CG HIS B 87	1.743	16.507	5.527	1.00	12.63		C
ANISOU	1466	CG HIS B 87	1397	2037	1367	-624	18	-429	C
ATOM	1467	ND1 HIS B 87	1.381	16.132	6.792	1.00	12.80		N
ANISOU	1467	ND1 HIS B 87	1121	2002	1741	-164	243	12	N
ATOM	1468	CD2 HIS B 87	0.578	16.587	4.838	1.00	16.53		C
ANISOU	1468	CD2 HIS B 87	1380	2984	1917	-656	-101	161	C
ATOM	1469	CE1 HIS B 87	0.058	15.985	6.868	1.00	14.01		C
ANISOU	1469	CE1 HIS B 87	1097	2387	1840	-156	99	-124	C
ATOM	1470	NE2 HIS B 87	-0.454	16.259	5.684	1.00	17.10		N
ANISOU	1470	NE2 HIS B 87	1337	3251	1908	-222	45	219	N
ATOM	1471	N SER B 88	6.059	18.752	6.150	1.00	10.57		N
ANISOU	1471	N SER B 88	993	2127	897	-199	61	-521	N
ATOM	1472	CA SER B 88	7.396	19.146	5.775	1.00	9.72		C
ANISOU	1472	CA SER B 88	984	1808	902	-78	116	-296	C
ATOM	1473	C SER B 88	8.093	19.717	7.002	1.00	9.47		C
ANISOU	1473	C SER B 88	956	1532	1108	-220	174	-398	C
ATOM	1474	O SER B 88	7.474	20.041	8.010	1.00	9.95		O
ANISOU	1474	O SER B 88	1126	1768	885	-130	167	-275	O
ATOM	1475	CB SER B 88	7.382	20.172	4.633	1.00	11.00		C
ANISOU	1475	CB SER B 88	1045	1792	1341	252	60	-72	C
ATOM	1476	OG SER B 88	6.794	21.338	5.159	1.00	12.24		O
ANISOU	1476	OG SER B 88	1222	1860	1571	144	-65	-420	O
ATOM	1477	N ALA B 89	9.409	19.806	6.907	1.00	9.81		N
ANISOU	1477	N ALA B 89	920	1759	1047	-119	132	-107	N
ATOM	1478	CA ALA B 89	10.238	20.340	7.973	1.00	8.13		C
ANISOU	1478	CA ALA B 89	768	1438	882	177	93	-42	C
ATOM	1479	C ALA B 89	11.474	20.987	7.353	1.00	9.33		C
ANISOU	1479	C ALA B 89	984	1484	1076	-25	160	-171	C
ATOM	1480	O ALA B 89	12.023	20.491	6.352	1.00	8.72		O
ANISOU	1480	O ALA B 89	1129	1193	989	-105	329	-89	O
ATOM	1481	CB ALA B 89	10.631	19.243	8.928	1.00	10.33		C
ANISOU	1481	CB ALA B 89	1040	1409	1474	180	-33	166	C

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ATOM 1482	N	THR B 90	11.841	22.132	7.953	1.00	8.41	N
ANISOU 1482	N	THR B 90	995	1538	664	-33	170 -100	N
ATOM 1483	CA	THR B 90	13.066	22.785	7.542	1.00	7.81	C
ANISOU 1483	CA	THR B 90	795	1308	862	150	96 -116	C
ATOM 1484	C	THR B 90	14.091	22.810	8.667	1.00	7.99	C
ANISOU 1484	C	THR B 90	977	1206	854	262	-8 -114	C
ATOM 1485	O	THR B 90	13.724	23.053	9.805	1.00	9.14	O
ANISOU 1485	O	THR B 90	978	1639	855	14	122 -25	O
ATOM 1486	CB	ATHR B 90	12.726	24.243	7.158	0.70	8.47	C
ANISOU 1486	CB	ATHR B 90	798	1417	1005	35	-186 66	C
ATOM 1487	CB	BTHR B 90	12.879	24.248	7.108	0.30	7.79	C
ATOM 1488	OG1	ATHR B 90	11.716	24.241	6.145	0.70	8.81	O
ANISOU 1488	OG1	ATHR B 90	871	1650	828	88	-150 -97	O
ATOM 1489	OG1	BTHR B 90	12.085	24.275	5.939	0.30	7.85	O
ATOM 1490	CG2	ATHR B 90	13.954	24.952	6.626	0.70	8.43	C
ANISOU 1490	CG2	ATHR B 90	1023	1425	756	-145	47 -252	C
ATOM 1491	CG2	BTHR B 90	14.230	24.822	6.706	0.30	10.56	C
ATOM 1492	N	THR B 91	15.340	22.578	8.344	1.00	8.36	N
ANISOU 1492	N	THR B 91	943	1498	736	170	-104 -245	N
ATOM 1493	CA	THR B 91	16.421	22.857	9.239	1.00	7.82	C
ANISOU 1493	CA	THR B 91	1000	1338	634	50	-92 48	C
ATOM 1494	C	THR B 91	17.320	23.943	8.656	1.00	7.45	C
ANISOU 1494	C	THR B 91	1017	1327	487	97	-63 -42	C
ATOM 1495	O	THR B 91	17.642	23.933	7.470	1.00	8.68	O
ANISOU 1495	O	THR B 91	1522	1241	537	-234	74 -177	O
ATOM 1496	CB	THR B 91	17.272	21.633	9.509	1.00	7.91	C
ANISOU 1496	CB	THR B 91	886	1314	803	-26	-127 -9	C
ATOM 1497	OG1	THR B 91	17.903	21.131	8.316	1.00	10.07	O
ANISOU 1497	OG1	THR B 91	1575	1209	1041	156	203 51	O
ATOM 1498	CG2	THR B 91	16.467	20.472	10.081	1.00	8.57	C
ANISOU 1498	CG2	THR B 91	1067	1137	1052	55	75 -137	C
ATOM 1499	N	TRP B 92	17.716	24.828	9.567	1.00	7.62	N
ANISOU 1499	N	TRP B 92	1137	1336	424	-2	180 -132	N
ATOM 1500	CA	TRP B 92	18.665	25.880	9.233	1.00	7.46	C
ANISOU 1500	CA	TRP B 92	930	1146	757	186	32 21	C
ATOM 1501	C	TRP B 92	19.965	25.581	9.999	1.00	7.93	C
ANISOU 1501	C	TRP B 92	1004	1245	765	192	57 94	C
ATOM 1502	O	TRP B 92	19.892	25.313	11.213	1.00	8.47	O
ANISOU 1502	O	TRP B 92	905	1583	729	-111	-50 59	O
ATOM 1503	CB	TRP B 92	18.148	27.221	9.653	1.00	8.15	C
ANISOU 1503	CB	TRP B 92	990	1239	868	188	-110 -90	C
ATOM 1504	CG	TRP B 92	17.016	27.849	8.941	1.00	7.80	C
ANISOU 1504	CG	TRP B 92	831	1280	853	243	198 41	C
ATOM 1505	CD1	TRP B 92	17.108	28.821	8.012	1.00	9.53	C
ANISOU 1505	CD1	TRP B 92	1064	1436	1122	-187	-364 224	C
ATOM 1506	CD2	TRP B 92	15.618	27.570	9.109	1.00	7.80	C
ANISOU 1506	CD2	TRP B 92	884	1588	492	126	60 -157	C
ATOM 1507	NE1	TRP B 92	15.867	29.169	7.570	1.00	8.67	N
ANISOU 1507	NE1	TRP B 92	1006	1648	640	198	-48 -32	N
ATOM 1508	CE2	TRP B 92	14.929	28.417	8.231	1.00	8.39	C
ANISOU 1508	CE2	TRP B 92	973	1526	688	299	73 -186	C
ATOM 1509	CE3	TRP B 92	14.903	26.668	9.915	1.00	8.32	C
ANISOU 1509	CE3	TRP B 92	991	1453	717	-107	133 -244	C
ATOM 1510	CZ2	TRP B 92	13.532	28.377	8.161	1.00	9.29	C
ANISOU 1510	CZ2	TRP B 92	1011	1096	1421	174	-102 -74	C
ATOM 1511	CZ3	TRP B 92	13.521	26.648	9.845	1.00	9.20	C

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ANISOU 1511 CZ3 TRP B 92	997	1691	806	-26	96	-105	C
ATOM 1512 CH2 TRP B 92	12.863	27.512	8.964	1.00	9.15		C
ANISOU 1512 CH2 TRP B 92	1185	1218	1074	-162	-167	-346	C
ATOM 1513 N SER B 93	21.075	25.618	9.296	1.00	8.10		N
ANISOU 1513 N SER B 93	851	1627	600	13	-87	-192	N
ATOM 1514 CA SER B 93	22.396	25.389	9.865	1.00	8.89		C
ANISOU 1514 CA SER B 93	980	1415	983	-33	-282	-116	C
ATOM 1515 C SER B 93	23.239	26.617	9.553	1.00	8.71		C
ANISOU 1515 C SER B 93	852	1492	966	-1	-61	-148	C
ATOM 1516 O SER B 93	23.261	27.064	8.400	1.00	9.00		O
ANISOU 1516 O SER B 93	1117	1331	971	50	-145	-152	O
ATOM 1517 CB SER B 93	23.002	24.162	9.250	1.00	9.65		C
ANISOU 1517 CB SER B 93	1092	1463	1111	109	-338	-160	C
ATOM 1518 OG SER B 93	24.195	23.839	9.865	1.00	11.31		O
ANISOU 1518 OG SER B 93	1106	1845	1345	170	-334	-278	O
ATOM 1519 N GLY B 94	23.882	27.202	10.545	1.00	8.97		N
ANISOU 1519 N GLY B 94	1264	1322	821	-173	-26	-29	N
ATOM 1520 CA GLY B 94	24.618	28.414	10.207	1.00	9.31		C
ANISOU 1520 CA GLY B 94	1214	1503	820	-214	30	-33	C
ATOM 1521 C GLY B 94	25.459	28.916	11.357	1.00	8.96		C
ANISOU 1521 C GLY B 94	978	1463	962	-35	-64	-121	C
ATOM 1522 O GLY B 94	25.854	28.157	12.254	1.00	9.61		O
ANISOU 1522 O GLY B 94	1059	1605	987	-114	-61	-4	O
ATOM 1523 N GLN B 95	25.723	30.212	11.363	1.00	9.93		N
ANISOU 1523 N GLN B 95	1300	1497	975	-3	-217	-125	N
ATOM 1524 CA GLN B 95	26.457	30.779	12.468	1.00	9.46		C
ANISOU 1524 CA GLN B 95	1066	1495	1034	-95	-101	-183	C
ATOM 1525 C GLN B 95	25.983	32.214	12.691	1.00	10.08		C
ANISOU 1525 C GLN B 95	1524	1380	928	-204	-56	36	C
ATOM 1526 O GLN B 95	25.599	32.909	11.761	1.00	10.41		O
ANISOU 1526 O GLN B 95	1534	1507	913	-49	10	65	O
ATOM 1527 CB GLN B 95	27.935	30.673	12.255	1.00	12.63		C
ANISOU 1527 CB GLN B 95	1158	2217	1426	-297	65	-439	C
ATOM 1528 CG GLN B 95	28.454	31.268	11.012	1.00	15.22		C
ANISOU 1528 CG GLN B 95	1471	2848	1466	-435	271	-367	C
ATOM 1529 CD GLN B 95	29.935	31.131	10.726	1.00	14.74		C
ANISOU 1529 CD GLN B 95	1566	2126	1909	-744	522	-1206	C
ATOM 1530 OE1 GLN B 95	30.477	30.834	9.645	1.00	17.08		O
ANISOU 1530 OE1 GLN B 95	1779	3174	1537	3	295	-801	O
ATOM 1531 NE2 GLN B 95	30.646	31.421	11.770	1.00	11.11		N
ANISOU 1531 NE2 GLN B 95	1133	1709	1381	-794	876	-595	N
ATOM 1532 N TYR B 96	26.012	32.567	13.989	1.00	9.47		N
ANISOU 1532 N TYR B 96	1519	1116	961	51	-51	77	N
ATOM 1533 CA TYR B 96	25.764	33.923	14.435	1.00	9.29		C
ANISOU 1533 CA TYR B 96	1309	1129	1094	216	-67	126	C
ATOM 1534 C TYR B 96	27.066	34.693	14.416	1.00	10.08		C
ANISOU 1534 C TYR B 96	1516	1201	1112	35	-145	-135	C
ATOM 1535 O TYR B 96	28.094	34.197	14.896	1.00	11.39		O
ANISOU 1535 O TYR B 96	1393	1317	1618	-24	-109	8	O
ATOM 1536 CB TYR B 96	25.165	33.829	15.829	1.00	10.37		C
ANISOU 1536 CB TYR B 96	1525	1510	905	220	-154	-67	C
ATOM 1537 CG TYR B 96	25.156	35.108	16.603	1.00	11.21		C
ANISOU 1537 CG TYR B 96	1537	1521	1201	84	-129	-141	C
ATOM 1538 CD1 TYR B 96	24.112	36.000	16.509	1.00	12.06		C
ANISOU 1538 CD1 TYR B 96	1850	1412	1319	200	-314	-244	C
ATOM 1539 CD2 TYR B 96	26.189	35.400	17.475	1.00	14.45		C

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ANISOU 1539	CD2 TYR B 96	1758	1945	1786	196	-461	-571	C
ATOM 1540	CE1 TYR B 96	24.151	37.165	17.263	1.00	13.49		C
ANISOU 1540	CE1 TYR B 96	1829	1518	1780	-34	-93	-453	C
ATOM 1541	CE2 TYR B 96	26.221	36.559	18.201	1.00	14.38		C
ANISOU 1541	CE2 TYR B 96	1906	1554	2004	-308	-335	-265	C
ATOM 1542	CZ TYR B 96	25.183	37.458	18.100	1.00	14.03		C
ANISOU 1542	CZ TYR B 96	1845	1740	1746	-165	25	-650	C
ATOM 1543	OH TYR B 96	25.202	38.608	18.818	1.00	18.52		O
ANISOU 1543	OH TYR B 96	2614	2283	2138	-89	-21	-1268	O
ATOM 1544	N VAL B 97	26.946	35.898	13.900	1.00	11.56		N
ANISOU 1544	N VAL B 97	1408	1284	1700	33	30	74	N
ATOM 1545	CA VAL B 97	28.074	36.811	13.817	1.00	14.01		C
ANISOU 1545	CA VAL B 97	1659	1449	2214	-188	-160	174	C
ATOM 1546	C VAL B 97	27.639	38.097	14.534	1.00	14.64		C
ANISOU 1546	C VAL B 97	2031	1334	2196	-192	-342	183	C
ATOM 1547	O VAL B 97	26.769	38.809	14.109	1.00	17.41		O
ANISOU 1547	O VAL B 97	2893	1294	2428	174	-788	78	O
ATOM 1548	CB VAL B 97	28.461	37.105	12.371	1.00	15.89		C
ANISOU 1548	CB VAL B 97	1631	1962	2446	-450	247	217	C
ATOM 1549	CG1 VAL B 97	29.697	38.004	12.314	1.00	23.76		C
ANISOU 1549	CG1 VAL B 97	1269	3346	4413	-729	651	291	C
ATOM 1550	CG2 VAL B 97	28.745	35.850	11.559	1.00	21.72		C
ANISOU 1550	CG2 VAL B 97	2531	2510	3211	-7	1670	-25	C
ATOM 1551	N GLY B 98	28.234	38.377	15.706	1.00	16.56		N
ANISOU 1551	N GLY B 98	2108	1775	2411	-64	-525	-19	N
ATOM 1552	CA GLY B 98	27.818	39.482	16.504	1.00	18.97		C
ANISOU 1552	CA GLY B 98	2864	1840	2506	-438	-135	-224	C
ATOM 1553	C GLY B 98	28.502	40.737	16.001	1.00	22.82		C
ANISOU 1553	C GLY B 98	3492	1867	3312	-836	-1086	255	C
ATOM 1554	O GLY B 98	29.105	40.712	14.929	1.00	29.88		O
ANISOU 1554	O GLY B 98	5283	3089	2980	-2239	-799	750	O
ATOM 1555	N GLY B 99	28.416	41.777	16.811	1.00	32.61		N
ANISOU 1555	N GLY B 99	4711	1998	5681	-745	-640	-641	N
ATOM 1556	CA GLY B 99	28.945	43.071	16.344	1.00	30.88		C
ANISOU 1556	CA GLY B 99	4087	2076	5572	-822	-228	-933	C
ATOM 1557	C GLY B 99	27.834	44.075	16.158	1.00	30.95		C
ANISOU 1557	C GLY B 99	3976	2087	5698	-960	-12	-198	C
ATOM 1558	O GLY B 99	26.706	43.832	16.597	1.00	30.65		O
ANISOU 1558	O GLY B 99	4313	2255	5079	-702	572	-728	O
ATOM 1559	N ALA B 100	28.091	45.196	15.507	1.00	30.82		N
ANISOU 1559	N ALA B 100	4626	1400	5687	-1647	-501	-919	N
ATOM 1560	CA ALA B 100	27.082	46.262	15.548	1.00	33.11		C
ANISOU 1560	CA ALA B 100	5687	1437	5457	-1153	9	-771	C
ATOM 1561	C ALA B 100	25.838	45.919	14.736	1.00	30.77		C
ANISOU 1561	C ALA B 100	4428	1783	5481	-716	715	-551	C
ATOM 1562	O ALA B 100	24.780	46.472	15.048	1.00	43.26		O
ANISOU 1562	O ALA B 100	4493	2899	9046	-1378	2183	-2222	O
ATOM 1563	CB ALA B 100	27.628	47.590	15.046	1.00	31.51		C
ANISOU 1563	CB ALA B 100	4594	2084	5294	-886	-10	119	C
ATOM 1564	N GLU B 101	26.016	45.091	13.744	1.00	24.13		N
ANISOU 1564	N GLU B 101	3354	1007	4805	-945	362	51	N
ATOM 1565	CA GLU B 101	24.970	44.619	12.811	1.00	27.96		C
ANISOU 1565	CA GLU B 101	3151	1408	6064	-1323	50	59	C
ATOM 1566	C GLU B 101	24.979	43.099	12.852	1.00	20.55		C
ANISOU 1566	C GLU B 101	2216	1389	4205	-643	413	-266	C
ATOM 1567	O GLU B 101	25.384	42.409	11.952	1.00	23.63		O

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ANISOU 1567 O GLU B 101	3464	2368	3145	44	338	135	O
ATOM 1568 CB GLU B 101	25.186	45.168	11.417	1.00	33.06		C
ANISOU 1568 CB GLU B 101	5190	1568	5805	-1070	-1328	452	C
ATOM 1569 CG GLU B 101	24.975	44.472	10.112	1.00	44.76		C
ANISOU 1569 CG GLU B 101	7205	3622	6180	-1383	-308	-764	C
ATOM 1570 CD GLU B 101	26.125	43.640	9.564	1.00	48.72		C
ANISOU 1570 CD GLU B 101	6780	4361	7372	-2047	646	-1175	C
ATOM 1571 OE1 GLU B 101	27.231	44.189	9.352	1.00	61.38		O
ANISOU 1571 OE1 GLU B 101	7272	7368	8682	-3940	767	-4481	O
ATOM 1572 OE2 GLU B 101	25.884	42.414	9.374	1.00	38.88		O
ANISOU 1572 OE2 GLU B 101	5509	2985	6277	-299	-1032	1584	O
ATOM 1573 N ALA B 102	24.478	42.606	13.999	1.00	17.76		N
ANISOU 1573 N ALA B 102	2606	952	3191	9	-45	-702	N
ATOM 1574 CA ALA B 102	24.490	41.172	14.210	1.00	14.99		C
ANISOU 1574 CA ALA B 102	2202	1009	2486	241	-525	-541	C
ATOM 1575 C ALA B 102	23.728	40.473	13.092	1.00	13.69		C
ANISOU 1575 C ALA B 102	2096	852	2254	-38	-512	-134	C
ATOM 1576 O ALA B 102	22.727	40.956	12.562	1.00	14.59		O
ANISOU 1576 O ALA B 102	2189	1152	2204	26	-438	158	O
ATOM 1577 CB ALA B 102	23.893	40.751	15.533	1.00	22.38		C
ANISOU 1577 CB ALA B 102	4243	2002	2260	-64	-454	-280	C
ATOM 1578 N ARG B 103	24.248	39.286	12.771	1.00	11.60		N
ANISOU 1578 N ARG B 103	2025	895	1488	-125	-233	6	N
ATOM 1579 CA ARG B 103	23.682	38.533	11.651	1.00	11.77		C
ANISOU 1579 CA ARG B 103	1476	1322	1676	12	-66	-289	C
ATOM 1580 C ARG B 103	23.673	37.049	11.997	1.00	13.19		C
ANISOU 1580 C ARG B 103	2126	1175	1709	181	-568	-536	C
ATOM 1581 O ARG B 103	24.565	36.597	12.682	1.00	14.26		O
ANISOU 1581 O ARG B 103	2179	1242	1995	60	-727	-388	O
ATOM 1582 CB ARG B 103	24.511	38.799	10.393	1.00	17.50		C
ANISOU 1582 CB ARG B 103	2246	2557	1844	-449	395	-552	C
ATOM 1583 CG ARG B 103	23.941	38.389	9.059	1.00	23.45		C
ANISOU 1583 CG ARG B 103	3229	3933	1749	-382	305	-646	C
ATOM 1584 CD ARG B 103	24.650	39.150	7.932	1.00	29.29		C
ANISOU 1584 CD ARG B 103	4580	4511	2036	-535	408	-8	C
ATOM 1585 NE ARG B 103	24.131	40.518	7.807	1.00	35.64		N
ANISOU 1585 NE ARG B 103	5155	3714	4673	-1474	-254	-49	N
ATOM 1586 CZ ARG B 103	23.572	41.077	6.749	1.00	37.46		C
ANISOU 1586 CZ ARG B 103	5794	3179	5260	-57	-1313	-1240	C
ATOM 1587 NH1 ARG B 103	23.149	42.340	6.811	1.00	35.56		N
ANISOU 1587 NH1 ARG B 103	4144	3184	6184	-349	885	-895	N
ATOM 1588 NH2 ARG B 103	23.385	40.472	5.579	1.00	54.62		N
ANISOU 1588 NH2 ARG B 103	8743	4957	7055	1491	-4240	-2874	N
ATOM 1589 N ILE B 104	22.678	36.345	11.497	1.00	10.28		N
ANISOU 1589 N ILE B 104	1492	1152	1262	208	-30	-251	N
ATOM 1590 CA ILE B 104	22.734	34.883	11.465	1.00	10.46		C
ANISOU 1590 CA ILE B 104	1678	1177	1117	-14	-201	-110	C
ATOM 1591 C ILE B 104	22.719	34.448	10.010	1.00	9.62		C
ANISOU 1591 C ILE B 104	1445	1044	1169	111	-356	-144	C
ATOM 1592 O ILE B 104	21.743	34.755	9.322	1.00	10.38		O
ANISOU 1592 O ILE B 104	1335	1304	1306	191	-318	-153	O
ATOM 1593 CB ILE B 104	21.628	34.233	12.285	1.00	11.50		C
ANISOU 1593 CB ILE B 104	1577	1484	1307	-360	-193	-424	C
ATOM 1594 CG1 ILE B 104	21.657	34.695	13.750	1.00	11.01		C
ANISOU 1594 CG1 ILE B 104	1551	1520	1113	-242	-205	-86	C
ATOM 1595 CG2 ILE B 104	21.709	32.716	12.203	1.00	12.05		C

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ANISOU 1595	CG2 ILE B 104	1663	1461	1456	-127	322	-181	C
ATOM 1596	CD1 ILE B 104	20.464	34.233	14.526	1.00	12.86		C
ANISOU 1596	CD1 ILE B 104	1902	1368	1616	-140	201	176	C
ATOM 1597	N ASN B 105	23.806	33.804	9.598	1.00	9.10		N
ANISOU 1597	N ASN B 105	984	1415	1058	-165	-181	55	N
ATOM 1598	CA ASN B 105	23.921	33.381	8.195	1.00	10.17		C
ANISOU 1598	CA ASN B 105	1314	1459	1089	-177	100	131	C
ATOM 1599	C ASN B 105	23.685	31.876	8.139	1.00	8.68		C
ANISOU 1599	C ASN B 105	1125	1406	768	-71	214	141	C
ATOM 1600	O ASN B 105	24.367	31.184	8.878	1.00	10.42		O
ANISOU 1600	O ASN B 105	1467	1316	1175	-208	-400	-68	O
ATOM 1601	CB ASN B 105	25.283	33.713	7.623	1.00	11.25		C
ANISOU 1601	CB ASN B 105	1395	1456	1422	-200	193	356	C
ATOM 1602	CG ASN B 105	25.505	35.205	7.545	1.00	12.86		C
ANISOU 1602	CG ASN B 105	1632	1430	1823	-227	157	387	C
ATOM 1603	OD1 ASN B 105	24.656	35.936	7.092	1.00	15.54		O
ANISOU 1603	OD1 ASN B 105	2092	1488	2323	24	-181	278	O
ATOM 1604	ND2 ASN B 105	26.684	35.600	7.958	1.00	15.90		N
ANISOU 1604	ND2 ASN B 105	1714	1371	2955	-174	-64	102	N
ATOM 1605	N THR B 106	22.732	31.453	7.320	1.00	8.41		N
ANISOU 1605	N THR B 106	1251	1291	653	35	78	189	N
ATOM 1606	CA THR B 106	22.333	30.078	7.324	1.00	8.82		C
ANISOU 1606	CA THR B 106	1173	1255	925	111	91	41	C
ATOM 1607	C THR B 106	22.240	29.490	5.919	1.00	8.64		C
ANISOU 1607	C THR B 106	1034	1374	874	89	118	64	C
ATOM 1608	O THR B 106	22.084	30.219	4.942	1.00	10.12		O
ANISOU 1608	O THR B 106	1564	1304	978	-74	-3	74	O
ATOM 1609	CB THR B 106	20.943	29.847	7.973	1.00	8.71		C
ANISOU 1609	CB THR B 106	1231	1146	934	75	175	-124	C
ATOM 1610	OG1 THR B 106	19.903	30.398	7.151	1.00	10.26		O
ANISOU 1610	OG1 THR B 106	1175	1664	1060	47	148	22	O
ATOM 1611	CG2 THR B 106	20.909	30.487	9.354	1.00	11.06		C
ANISOU 1611	CG2 THR B 106	1620	1620	962	67	219	-246	C
ATOM 1612	N GLN B 107	22.306	28.159	5.923	1.00	8.45		N
ANISOU 1612	N GLN B 107	1145	1356	708	-57	-204	84	N
ATOM 1613	CA GLN B 107	21.837	27.360	4.818	1.00	9.09		C
ANISOU 1613	CA GLN B 107	830	1613	1012	-92	-250	-74	C
ATOM 1614	C GLN B 107	20.761	26.451	5.382	1.00	8.61		C
ANISOU 1614	C GLN B 107	960	1441	872	-34	-153	-101	C
ATOM 1615	O GLN B 107	20.835	26.133	6.556	1.00	9.83		O
ANISOU 1615	O GLN B 107	1221	1654	859	-164	-352	-51	O
ATOM 1616	CB GLN B 107	22.998	26.586	4.192	1.00	10.37		C
ANISOU 1616	CB GLN B 107	1007	1796	1137	-115	-58	-221	C
ATOM 1617	CG GLN B 107	23.953	27.583	3.550	1.00	15.01		C
ANISOU 1617	CG GLN B 107	1237	2302	2162	-605	411	-493	C
ATOM 1618	CD GLN B 107	25.155	27.022	2.853	1.00	13.68		C
ANISOU 1618	CD GLN B 107	1089	2350	1759	-274	77	-296	C
ATOM 1619	OE1 GLN B 107	26.220	26.752	3.429	1.00	18.89		O
ANISOU 1619	OE1 GLN B 107	1756	3054	2366	337	-445	-34	O
ATOM 1620	NE2 GLN B 107	24.966	26.867	1.594	1.00	15.45		N
ANISOU 1620	NE2 GLN B 107	1396	2815	1661	117	112	-90	N
ATOM 1621	N TRP B 108	19.780	26.104	4.541	1.00	8.32		N
ANISOU 1621	N TRP B 108	1102	1436	623	-301	-90	189	N
ATOM 1622	CA TRP B 108	18.657	25.334	5.038	1.00	7.35		C
ANISOU 1622	CA TRP B 108	872	1165	755	-77	84	-23	C
ATOM 1623	C TRP B 108	18.306	24.190	4.072	1.00	7.73		C

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ANISOU 1623 C TRP B 108	984	1074	878	18	164	-143	C
ATOM 1624 O TRP B 108	18.603	24.219	2.888	1.00	8.22		O
ANISOU 1624 O TRP B 108	1036	1263	824	-114	110	-85	O
ATOM 1625 CB TRP B 108	17.475	26.233	5.338	1.00	7.77		C
ANISOU 1625 CB TRP B 108	1154	965	834	58	-74	-144	C
ATOM 1626 CG TRP B 108	16.974	27.092	4.258	1.00	8.40		C
ANISOU 1626 CG TRP B 108	1145	1204	844	44	-68	-20	C
ATOM 1627 CD1 TRP B 108	17.180	28.425	4.172	1.00	8.64		C
ANISOU 1627 CD1 TRP B 108	1217	1238	829	-56	-89	105	C
ATOM 1628 CD2 TRP B 108	16.173	26.743	3.112	1.00	8.36		C
ANISOU 1628 CD2 TRP B 108	1248	1222	707	132	32	-120	C
ATOM 1629 NE1 TRP B 108	16.574	28.922	3.040	1.00	8.78		N
ANISOU 1629 NE1 TRP B 108	1004	1302	1029	-4	-197	131	N
ATOM 1630 CE2 TRP B 108	15.947	27.911	2.375	1.00	8.03		C
ANISOU 1630 CE2 TRP B 108	828	1272	951	25	-59	69	C
ATOM 1631 CE3 TRP B 108	15.634	25.553	2.643	1.00	8.22		C
ANISOU 1631 CE3 TRP B 108	1155	1155	812	170	-40	-62	C
ATOM 1632 CZ2 TRP B 108	15.212	27.908	1.205	1.00	8.62		C
ANISOU 1632 CZ2 TRP B 108	1214	1288	772	70	-17	-65	C
ATOM 1633 CZ3 TRP B 108	14.901	25.563	1.484	1.00	9.07		C
ANISOU 1633 CZ3 TRP B 108	1310	1249	888	144	-126	-101	C
ATOM 1634 CH2 TRP B 108	14.700	26.738	0.788	1.00	8.75		C
ANISOU 1634 CH2 TRP B 108	1288	1247	788	226	-107	-124	C
ATOM 1635 N LEU B 109	17.669	23.193	4.661	1.00	7.81		N
ANISOU 1635 N LEU B 109	1163	1197	607	-140	-133	-62	N
ATOM 1636 CA LEU B 109	17.142	22.009	4.015	1.00	7.91		C
ANISOU 1636 CA LEU B 109	992	1251	763	-182	-76	-102	C
ATOM 1637 C LEU B 109	15.667	21.866	4.371	1.00	8.24		C
ANISOU 1637 C LEU B 109	1032	1434	666	-210	-84	224	C
ATOM 1638 O LEU B 109	15.360	21.749	5.568	1.00	9.98		O
ANISOU 1638 O LEU B 109	1114	2073	604	-42	-101	56	O
ATOM 1639 CB LEU B 109	17.891	20.776	4.467	1.00	7.61		C
ANISOU 1639 CB LEU B 109	988	1129	777	-331	1	-116	C
ATOM 1640 CG LEU B 109	19.382	20.713	4.095	1.00	7.98		C
ANISOU 1640 CG LEU B 109	927	1141	966	-275	-9	124	C
ATOM 1641 CD1 LEU B 109	20.060	19.516	4.772	1.00	12.66		C
ANISOU 1641 CD1 LEU B 109	1891	1237	1681	329	-433	-123	C
ATOM 1642 CD2 LEU B 109	19.604	20.640	2.592	1.00	11.20		C
ANISOU 1642 CD2 LEU B 109	1268	1911	1077	-90	255	-179	C
ATOM 1643 N LEU B 110	14.819	21.866	3.370	1.00	7.69		N
ANISOU 1643 N LEU B 110	1013	1312	597	0	-33	108	N
ATOM 1644 CA LEU B 110	13.367	21.731	3.561	1.00	7.84		C
ANISOU 1644 CA LEU B 110	946	1214	820	51	-37	-41	C
ATOM 1645 C LEU B 110	12.966	20.394	2.955	1.00	8.23		C
ANISOU 1645 C LEU B 110	1163	1367	598	-182	188	-40	C
ATOM 1646 O LEU B 110	12.971	20.261	1.726	1.00	9.35		O
ANISOU 1646 O LEU B 110	1432	1485	635	47	257	-108	O
ATOM 1647 CB LEU B 110	12.624	22.877	2.939	1.00	10.07		C
ANISOU 1647 CB LEU B 110	1344	1531	949	426	-279	-210	C
ATOM 1648 CG LEU B 110	11.118	22.817	2.658	1.00	13.57		C
ANISOU 1648 CG LEU B 110	1123	2031	2002	597	24	243	C
ATOM 1649 CD1 LEU B 110	10.283	22.194	3.717	1.00	16.32		C
ANISOU 1649 CD1 LEU B 110	1872	1893	2435	182	344	189	C
ATOM 1650 CD2 LEU B 110	10.653	24.269	2.391	1.00	14.11		C
ANISOU 1650 CD2 LEU B 110	1167	1934	2261	445	-88	327	C
ATOM 1651 N THR B 111	12.668	19.425	3.802	1.00	8.23		N

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ANISOU 1651 N THR B 111	1086	1356	686	-228	75	-28	N
ATOM 1652 CA THR B 111	12.249	18.112	3.393	1.00	9.16		C
ANISOU 1652 CA THR B 111	1200	1413	869	-302	-95	-50	C
ATOM 1653 C THR B 111	10.728	17.995	3.513	1.00	9.05		C
ANISOU 1653 C THR B 111	1154	1225	1058	-134	-37	-267	C
ATOM 1654 O THR B 111	10.168	18.227	4.595	1.00	10.73		O
ANISOU 1654 O THR B 111	1393	1686	999	-114	80	-231	O
ATOM 1655 CB THR B 111	12.908	16.979	4.235	1.00	9.74		C
ANISOU 1655 CB THR B 111	1197	1405	1100	-103	27	-28	C
ATOM 1656 OG1 THR B 111	14.316	17.084	3.990	1.00	11.07		O
ANISOU 1656 OG1 THR B 111	1227	1555	1424	-122	176	81	O
ATOM 1657 CG2 THR B 111	12.576	15.625	3.681	1.00	11.31		C
ANISOU 1657 CG2 THR B 111	1615	1421	1260	-318	455	-149	C
ATOM 1658 N SER B 112	10.100	17.594	2.409	1.00	9.41		N
ANISOU 1658 N SER B 112	1152	1498	923	-376	21	-85	N
ATOM 1659 CA SER B 112	8.702	17.237	2.424	1.00	10.84		C
ANISOU 1659 CA SER B 112	1150	1743	1226	-334	1	-489	C
ATOM 1660 C SER B 112	8.543	15.723	2.556	1.00	11.81		C
ANISOU 1660 C SER B 112	1329	1755	1402	-598	280	-736	C
ATOM 1661 O SER B 112	9.335	14.976	1.964	1.00	13.64		O
ANISOU 1661 O SER B 112	1873	1725	1584	-238	551	-459	O
ATOM 1662 CB SER B 112	8.069	17.725	1.123	1.00	13.72		C
ANISOU 1662 CB SER B 112	1539	2375	1299	142	-342	-733	C
ATOM 1663 OG SER B 112	8.028	19.136	1.091	1.00	15.95		O
ANISOU 1663 OG SER B 112	1916	2404	1739	266	0	-148	O
ATOM 1664 N GLY B 113	7.519	15.263	3.288	1.00	12.73		N
ANISOU 1664 N GLY B 113	1722	1837	1276	-382	466	-379	N
ATOM 1665 CA GLY B 113	7.199	13.852	3.252	1.00	12.31		C
ANISOU 1665 CA GLY B 113	1521	1882	1275	-521	129	-204	C
ATOM 1666 C GLY B 113	6.773	13.486	1.851	1.00	12.13		C
ANISOU 1666 C GLY B 113	1637	1640	1332	-289	-44	-66	C
ATOM 1667 O GLY B 113	5.941	14.135	1.237	1.00	15.01		O
ANISOU 1667 O GLY B 113	1820	1938	1944	-144	-468	-186	O
ATOM 1668 N THR B 114	7.371	12.398	1.368	1.00	12.13		N
ANISOU 1668 N THR B 114	1263	2002	1346	-270	-125	-351	N
ATOM 1669 CA THR B 114	7.129	11.899	0.047	1.00	12.84		C
ANISOU 1669 CA THR B 114	1629	2005	1245	-465	-67	-222	C
ATOM 1670 C THR B 114	7.041	10.369	0.070	1.00	12.41		C
ANISOU 1670 C THR B 114	1607	1995	1112	-761	120	-212	C
ATOM 1671 O THR B 114	7.447	9.744	1.026	1.00	12.82		O
ANISOU 1671 O THR B 114	1936	1921	1014	-268	194	-417	O
ATOM 1672 CB THR B 114	8.232	12.255	-0.984	1.00	11.90		C
ANISOU 1672 CB THR B 114	1543	1790	1188	-614	-235	-29	C
ATOM 1673 OG1 THR B 114	9.449	11.599	-0.625	1.00	12.97		O
ANISOU 1673 OG1 THR B 114	1658	1942	1327	-370	-56	-98	O
ATOM 1674 CG2 THR B 114	8.474	13.731	-0.977	1.00	14.55		C
ANISOU 1674 CG2 THR B 114	1908	1750	1869	-528	-236	-95	C
ATOM 1675 N THR B 115	6.554	9.803	-1.025	1.00	15.05		N
ANISOU 1675 N THR B 115	2062	2375	1283	-881	-121	-314	N
ATOM 1676 CA THR B 115	6.741	8.353	-1.183	1.00	18.77		C
ANISOU 1676 CA THR B 115	3426	2409	1298	-984	478	-652	C
ATOM 1677 C THR B 115	8.238	8.104	-1.411	1.00	20.68		C
ANISOU 1677 C THR B 115	3733	1723	2402	-807	1223	-950	C
ATOM 1678 O THR B 115	9.035	8.978	-1.763	1.00	19.18		O
ANISOU 1678 O THR B 115	3490	1867	1931	-627	932	-427	O
ATOM 1679 CB THR B 115	5.933	7.801	-2.353	1.00	24.21		C

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ANISOU 1679 CB THR B 115	5118	2546	1533	-1377	-217	-487	C
ATOM 1680 OG1 THR B 115	6.470	8.396	-3.532	1.00	29.27		O
ANISOU 1680 OG1 THR B 115	6271	3313	1536	-1889	-623	104	O
ATOM 1681 CG2 THR B 115	4.464	8.214	-2.338	1.00	26.62		C
ANISOU 1681 CG2 THR B 115	4906	2248	2960	-1700	-1353	357	C
ATOM 1682 N GLU B 116	8.660	6.872	-1.186	1.00	26.00		N
ANISOU 1682 N GLU B 116	4249	1698	3932	-711	1747	-639	N
ATOM 1683 CA GLU B 116	10.066	6.508	-1.390	1.00	26.28		C
ANISOU 1683 CA GLU B 116	4462	1649	3875	-463	2195	154	C
ATOM 1684 C GLU B 116	10.551	6.856	-2.780	1.00	33.36		C
ANISOU 1684 C GLU B 116	5960	2855	3861	-952	2743	-295	C
ATOM 1685 O GLU B 116	11.669	7.288	-3.099	1.00	35.04		O
ANISOU 1685 O GLU B 116	6999	2859	3455	-2186	3331	-1500	O
ATOM 1686 CB AGLU B 116	10.150	4.999	-1.101	0.50	32.66		C
ANISOU 1686 CB AGLU B 116	5588	1554	5269	-286	1907	-42	C
ATOM 1687 CB BGLU B 116	10.215	5.012	-1.085	0.50	32.89		C
ANISOU 1687 CB BGLU B 116	5716	1574	5205	-203	1679	-35	C
ATOM 1688 CG AGLU B 116	9.233	4.167	-1.968	0.50	37.68		C
ANISOU 1688 CG AGLU B 116	6705	1872	5739	-873	1842	-386	C
ATOM 1689 CG BGLU B 116	11.499	4.414	-1.618	0.50	35.57		C
ANISOU 1689 CG BGLU B 116	5824	1791	5902	172	1754	363	C
ATOM 1690 CD AGLU B 116	7.794	3.995	-1.538	0.50	38.94		C
ANISOU 1690 CD AGLU B 116	6632	2182	5981	-1335	1673	-1389	C
ATOM 1691 CD BGLU B 116	11.849	3.092	-0.955	0.50	47.58		C
ANISOU 1691 CD BGLU B 116	7547	2357	8173	928	962	996	C
ATOM 1692 OE1AGLU B 116	7.250	4.713	-0.659	0.50	30.62		O
ANISOU 1692 OE1AGLU B 116	6480	865	4287	-1021	1320	131	O
ATOM 1693 OE1BGLU B 116	11.432	2.886	0.209	0.50	54.15		O
ANISOU 1693 OE1BGLU B 116	9667	2332	8575	2309	1468	2300	C
ATOM 1694 OE2AGLU B 116	7.186	3.056	-2.134	0.50	44.95		O
ANISOU 1694 OE2AGLU B 116	8904	5166	3010	-3763	2501	-1636	C
ATOM 1695 OE2BGLU B 116	12.537	2.278	-1.608	0.50	51.60		O
ANISOU 1695 OE2BGLU B 116	7048	3226	9331	1930	887	1174	O
ATOM 1696 N ALA B 117	9.642	6.687	-3.749	1.00	32.30		N
ANISOU 1696 N ALA B 117	6464	2325	3484	-1021	2770	-381	N
ATOM 1697 CA ALA B 117	10.075	6.859	-5.129	1.00	33.86		C
ANISOU 1697 CA ALA B 117	6194	2907	3763	-1527	2902	23	C
ATOM 1698 C ALA B 117	10.277	8.323	-5.482	1.00	33.06		C
ANISOU 1698 C ALA B 117	6215	2824	3523	-2053	2864	-523	C
ATOM 1699 O ALA B 117	11.030	8.624	-6.419	1.00	44.24		O
ANISOU 1699 O ALA B 117	9895	2783	4131	-3005	4733	-1291	O
ATOM 1700 CB ALA B 117	9.047	6.234	-6.058	1.00	39.54		C
ANISOU 1700 CB ALA B 117	8320	3117	3586	-2619	3282	-1285	C
ATOM 1701 N ASN B 118	9.608	9.192	-4.740	1.00	24.66		N
ANISOU 1701 N ASN B 118	4193	2888	2290	-2108	1200	-648	N
ATOM 1702 CA ASN B 118	9.685	10.614	-5.031	1.00	21.27		C
ANISOU 1702 CA ASN B 118	3646	2962	1475	-1753	377	-502	C
ATOM 1703 C ASN B 118	10.666	11.244	-4.066	1.00	16.58		C
ANISOU 1703 C ASN B 118	3584	1989	725	-732	292	-537	C
ATOM 1704 O ASN B 118	10.804	12.456	-4.023	1.00	14.75		O
ANISOU 1704 O ASN B 118	2135	1932	1539	-358	322	-540	O
ATOM 1705 CB ASN B 118	8.354	11.331	-4.913	1.00	22.30		C
ANISOU 1705 CB ASN B 118	3246	3415	1813	-2000	425	-606	C
ATOM 1706 CG ASN B 118	7.502	10.918	-6.106	1.00	23.06		C
ANISOU 1706 CG ASN B 118	3762	2911	2088	-1775	84	-773	C
ATOM 1707 OD1 ASN B 118	8.012	10.671	-7.201	1.00	27.84		O

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ANISOU 1707 OD1 ASN B 118	4341	4561	1674	-1637	15	-392	O
ATOM 1708 ND2 ASN B 118	6.207	10.835	-5.809	1.00	25.85		N
ANISOU 1708 ND2 ASN B 118	3481	4489	1851	-1172	-493	30	N
ATOM 1709 N ALA B 119	11.324	10.379	-3.349	1.00	18.86		N
ANISOU 1709 N ALA B 119	4008	1887	1270	-619	490	-187	N
ATOM 1710 CA ALA B 119	12.276	10.931	-2.404	1.00	16.03		C
ANISOU 1710 CA ALA B 119	3281	1934	874	3	598	25	C
ATOM 1711 C ALA B 119	13.342	11.766	-3.085	1.00	13.82		C
ANISOU 1711 C ALA B 119	2693	1572	987	390	504	-113	C
ATOM 1712 O ALA B 119	13.879	12.660	-2.443	1.00	14.04		O
ANISOU 1712 O ALA B 119	1837	2150	1347	517	377	-414	O
ATOM 1713 CB ALA B 119	12.927	9.816	-1.589	1.00	27.59		C
ANISOU 1713 CB ALA B 119	5338	3582	1562	537	565	1467	C
ATOM 1714 N TRP B 120	13.699	11.505	-4.324	1.00	13.98		N
ANISOU 1714 N TRP B 120	2141	2225	946	242	382	-87	N
ATOM 1715 CA TRP B 120	14.732	12.289	-4.992	1.00	13.62		C
ANISOU 1715 CA TRP B 120	1543	2430	1204	168	364	-525	C
ATOM 1716 C TRP B 120	14.389	13.772	-5.060	1.00	12.82		C
ANISOU 1716 C TRP B 120	1435	2248	1189	-251	197	-448	C
ATOM 1717 O TRP B 120	15.269	14.615	-5.170	1.00	14.32		O
ANISOU 1717 O TRP B 120	1381	2758	1304	-424	385	-352	O
ATOM 1718 CB TRP B 120	14.998	11.742	-6.401	1.00	13.60		C
ANISOU 1718 CB TRP B 120	1732	2420	1013	101	309	-356	C
ATOM 1719 CG TRP B 120	13.869	11.951	-7.339	1.00	11.80		C
ANISOU 1719 CG TRP B 120	1640	1649	1195	-54	311	-324	C
ATOM 1720 CD1 TRP B 120	12.773	11.157	-7.547	1.00	13.15		C
ANISOU 1720 CD1 TRP B 120	1859	1820	1319	-285	321	-181	C
ATOM 1721 CD2 TRP B 120	13.705	13.065	-8.222	1.00	10.97		C
ANISOU 1721 CD2 TRP B 120	1540	1655	973	-146	430	-380	C
ATOM 1722 NE1 TRP B 120	11.953	11.693	-8.497	1.00	13.24		N
ANISOU 1722 NE1 TRP B 120	1841	2073	1115	-487	248	-193	N
ATOM 1723 CE2 TRP B 120	12.505	12.867	-8.923	1.00	13.40		C
ANISOU 1723 CE2 TRP B 120	2014	2001	1077	-529	24	-163	C
ATOM 1724 CE3 TRP B 120	14.462	14.199	-8.485	1.00	12.31		C
ANISOU 1724 CE3 TRP B 120	1412	1747	1520	-144	356	-225	C
ATOM 1725 CZ2 TRP B 120	12.055	13.786	-9.874	1.00	13.33		C
ANISOU 1725 CZ2 TRP B 120	2321	1673	1071	-183	-83	-505	C
ATOM 1726 CZ3 TRP B 120	14.017	15.105	-9.425	1.00	13.02		C
ANISOU 1726 CZ3 TRP B 120	1823	1808	1314	-207	546	-125	C
ATOM 1727 CH2 TRP B 120	12.807	14.893	-10.124	1.00	13.79		C
ANISOU 1727 CH2 TRP B 120	2196	1483	1562	105	70	-274	C
ATOM 1728 N LYS B 121	13.101	14.086	-5.024	1.00	10.48		N
ANISOU 1728 N LYS B 121	1432	1382	1169	-447	230	-155	N
ATOM 1729 CA LYS B 121	12.668	15.470	-5.120	1.00	11.55		C
ANISOU 1729 CA LYS B 121	2128	1330	930	-362	100	-388	C
ATOM 1730 C LYS B 121	12.026	15.901	-3.816	1.00	10.74		C
ANISOU 1730 C LYS B 121	1353	1644	1083	-293	244	-144	C
ATOM 1731 O LYS B 121	11.222	16.808	-3.784	1.00	12.64		O
ANISOU 1731 O LYS B 121	1829	1827	1146	14	89	-234	O
ATOM 1732 CB LYS B 121	11.721	15.710	-6.283	1.00	12.31		C
ANISOU 1732 CB LYS B 121	1721	1921	1035	55	375	-59	C
ATOM 1733 CG LYS B 121	10.459	14.843	-6.301	1.00	14.58		C
ANISOU 1733 CG LYS B 121	1602	2326	1611	68	-107	394	C
ATOM 1734 CD LYS B 121	9.533	15.224	-7.443	1.00	17.50		C
ANISOU 1734 CD LYS B 121	2155	2987	1506	251	-353	95	C
ATOM 1735 CE LYS B 121	8.471	14.134	-7.583	1.00	19.70		C

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ANISOU 1735 CE LYS B 121	2462	3062	1961	100	-909	212	C
ATOM 1736 NZ LYS B 121	7.570	14.261	-8.731	1.00	35.70		N
ANISOU 1736 NZ LYS B 121	2835	7989	2741	150	-1703	-735	N
ATOM 1737 N SER B 122	12.434	15.311	-2.713	1.00	10.48		N
ANISOU 1737 N SER B 122	1353	1651	978	-72	233	-401	N
ATOM 1738 CA SER B 122	11.884	15.658	-1.422	1.00	9.81		C
ANISOU 1738 CA SER B 122	1365	1404	957	-226	186	-349	C
ATOM 1739 C SER B 122	12.474	16.893	-0.748	1.00	9.25		C
ANISOU 1739 C SER B 122	1005	1518	992	-99	30	-386	C
ATOM 1740 O SER B 122	11.848	17.437	0.156	1.00	9.80		O
ANISOU 1740 O SER B 122	1286	1525	912	-236	162	-373	O
ATOM 1741 CB SER B 122	12.085	14.442	-0.472	1.00	12.92		C
ANISOU 1741 CB SER B 122	2044	1577	1288	-62	289	-109	C
ATOM 1742 OG SER B 122	13.447	14.257	-0.164	1.00	13.38		O
ANISOU 1742 OG SER B 122	2140	1733	1212	103	162	39	O
ATOM 1743 N THR B 123	13.685	17.304	-1.110	1.00	8.67		N
ANISOU 1743 N THR B 123	1054	1510	732	-95	-17	-290	N
ATOM 1744 CA THR B 123	14.436	18.250	-0.320	1.00	9.00		C
ANISOU 1744 CA THR B 123	1172	1399	848	-160	-359	116	C
ATOM 1745 C THR B 123	14.913	19.466	-1.116	1.00	8.78		C
ANISOU 1745 C THR B 123	1450	1291	596	30	-22	-8	C
ATOM 1746 O THR B 123	15.730	19.322	-2.011	1.00	10.44		O
ANISOU 1746 O THR B 123	1291	1478	1195	117	290	-30	O
ATOM 1747 CB THR B 123	15.706	17.603	0.298	1.00	9.68		C
ANISOU 1747 CB THR B 123	1226	1260	1194	28	-381	-17	C
ATOM 1748 OG1 THR B 123	15.299	16.400	1.002	1.00	11.74		O
ANISOU 1748 OG1 THR B 123	1630	1234	1596	17	-392	126	O
ATOM 1749 CG2 THR B 123	16.385	18.511	1.284	1.00	9.51		C
ANISOU 1749 CG2 THR B 123	1101	1624	886	-151	-280	-26	C
ATOM 1750 N LEU B 124	14.414	20.614	-0.681	1.00	9.33		N
ANISOU 1750 N LEU B 124	1314	1342	890	-204	313	-179	N
ATOM 1751 CA LEU B 124	14.865	21.903	-1.189	1.00	9.63		C
ANISOU 1751 CA LEU B 124	1622	1239	796	-190	89	-195	C
ATOM 1752 C LEU B 124	16.043	22.396	-0.333	1.00	8.99		C
ANISOU 1752 C LEU B 124	1446	1208	761	-123	183	-205	C
ATOM 1753 O LEU B 124	16.102	22.104	0.877	1.00	9.29		O
ANISOU 1753 O LEU B 124	1146	1489	894	-212	117	76	O
ATOM 1754 CB LEU B 124	13.723	22.924	-1.138	1.00	9.18		C
ANISOU 1754 CB LEU B 124	1389	1270	828	-278	120	-239	C
ATOM 1755 CG LEU B 124	12.595	22.697	-2.126	1.00	10.58		C
ANISOU 1755 CG LEU B 124	1546	1762	711	-219	90	-187	C
ATOM 1756 CD1 LEU B 124	11.411	23.555	-1.645	1.00	13.39		C
ANISOU 1756 CD1 LEU B 124	1502	1999	1586	12	65	-60	C
ATOM 1757 CD2 LEU B 124	12.971	23.020	-3.547	1.00	12.51		C
ANISOU 1757 CD2 LEU B 124	2099	1853	801	-320	6	114	C
ATOM 1758 N VAL B 125	16.943	23.160	-0.938	1.00	8.90		N
ANISOU 1758 N VAL B 125	1359	1586	438	-136	130	-199	N
ATOM 1759 CA VAL B 125	18.061	23.750	-0.236	1.00	8.45		C
ANISOU 1759 CA VAL B 125	1382	1329	500	-85	111	-238	C
ATOM 1760 C VAL B 125	18.096	25.221	-0.576	1.00	8.40		C
ANISOU 1760 C VAL B 125	1249	1291	652	169	155	-211	C
ATOM 1761 O VAL B 125	17.818	25.640	-1.707	1.00	9.53		O
ANISOU 1761 O VAL B 125	1174	1529	918	-149	-236	-17	O
ATOM 1762 CB VAL B 125	19.377	23.075	-0.636	1.00	7.80		C
ANISOU 1762 CB VAL B 125	1411	1037	515	20	11	-94	C
ATOM 1763 CG1 VAL B 125	19.642	23.218	-2.133	1.00	10.62		C

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ANISOU 1763	CG1 VAL B 125	1574	1785	676	534	287	245	C
ATOM 1764	CG2 VAL B 125	20.557	23.618	0.113	1.00	10.25		C
ANISOU 1764	CG2 VAL B 125	1413	1245	1237	15	26	-512	C
ATOM 1765	N GLY B 126	18.454	26.021	0.397	1.00	9.04		N
ANISOU 1765	N GLY B 126	1484	1268	682	-17	196	-188	N
ATOM 1766	CA GLY B 126	18.554	27.444	0.175	1.00	8.81		C
ANISOU 1766	CA GLY B 126	1127	1276	944	88	179	-177	C
ATOM 1767	C GLY B 126	19.402	28.089	1.271	1.00	9.12		C
ANISOU 1767	C GLY B 126	1461	1157	846	29	40	-28	C
ATOM 1768	O GLY B 126	20.057	27.388	2.054	1.00	10.07		O
ANISOU 1768	O GLY B 126	1830	1181	814	55	-9	97	O
ATOM 1769	N HIS B 127	19.369	29.416	1.286	1.00	8.75		N
ANISOU 1769	N HIS B 127	1252	1163	911	120	24	-97	N
ATOM 1770	CA HIS B 127	20.160	30.174	2.246	1.00	9.05		C
ANISOU 1770	CA HIS B 127	1174	1251	1012	41	137	-184	C
ATOM 1771	C HIS B 127	19.384	31.424	2.675	1.00	10.36		C
ANISOU 1771	C HIS B 127	1703	1284	950	313	-66	-187	C
ATOM 1772	O HIS B 127	18.825	32.147	1.869	1.00	11.03		O
ANISOU 1772	O HIS B 127	1736	1405	1051	198	-71	79	O
ATOM 1773	CB HIS B 127	21.510	30.527	1.655	1.00	9.72		C
ANISOU 1773	CB HIS B 127	1502	1530	661	-301	255	-260	C
ATOM 1774	CG HIS B 127	21.425	31.149	0.313	1.00	10.61		C
ANISOU 1774	CG HIS B 127	1393	1676	962	-206	-48	20	C
ATOM 1775	ND1 HIS B 127	21.484	32.476	0.063	1.00	13.94		N
ANISOU 1775	ND1 HIS B 127	1834	1845	1619	-274	-93	301	N
ATOM 1776	CD2 HIS B 127	21.291	30.583	-0.904	1.00	11.17		C
ANISOU 1776	CD2 HIS B 127	1420	2156	668	-55	219	158	C
ATOM 1777	CE1 HIS B 127	21.389	32.730	-1.234	1.00	15.94		C
ANISOU 1777	CE1 HIS B 127	2050	2293	1715	260	170	667	C
ATOM 1778	NE2 HIS B 127	21.264	31.565	-1.843	1.00	14.61		N
ANISOU 1778	NE2 HIS B 127	1829	2569	1153	126	-67	569	N
ATOM 1779	N ASP B 128	19.375	31.618	3.988	1.00	9.21		N
ANISOU 1779	N ASP B 128	1550	1024	924	127	66	-79	N
ATOM 1780	CA ASP B 128	18.734	32.717	4.652	1.00	8.50		C
ANISOU 1780	CA ASP B 128	1109	1195	925	138	94	-83	C
ATOM 1781	C ASP B 128	19.738	33.469	5.506	1.00	9.23		C
ANISOU 1781	C ASP B 128	1250	1221	1034	83	11	-221	C
ATOM 1782	O ASP B 128	20.532	32.890	6.251	1.00	10.56		O
ANISOU 1782	O ASP B 128	1415	1548	1050	188	-44	-69	O
ATOM 1783	CB ASP B 128	17.569	32.238	5.528	1.00	9.65		C
ANISOU 1783	CB ASP B 128	1447	1201	1017	-123	172	7	C
ATOM 1784	CG ASP B 128	16.336	31.739	4.817	1.00	9.90		C
ANISOU 1784	CG ASP B 128	1218	1480	1063	-3	246	-129	C
ATOM 1785	OD1 ASP B 128	16.245	31.778	3.574	1.00	10.53		O
ANISOU 1785	OD1 ASP B 128	1341	1598	1061	81	235	-133	O
ATOM 1786	OD2 ASP B 128	15.462	31.278	5.595	1.00	9.70		O
ANISOU 1786	OD2 ASP B 128	1125	1466	1094	147	36	247	O
ATOM 1787	N THR B 129	19.658	34.787	5.332	1.00	9.73		N
ANISOU 1787	N THR B 129	1343	1345	1008	-96	-137	21	N
ATOM 1788	CA THR B 129	20.413	35.635	6.251	1.00	10.49		C
ANISOU 1788	CA THR B 129	1411	1195	1382	-185	-117	-87	C
ATOM 1789	C THR B 129	19.458	36.450	7.099	1.00	10.14		C
ANISOU 1789	C THR B 129	1572	1052	1228	-79	-198	55	C
ATOM 1790	O THR B 129	18.533	37.046	6.580	1.00	10.69		O
ANISOU 1790	O THR B 129	1797	1417	849	191	-131	-81	O
ATOM 1791	CB THR B 129	21.423	36.472	5.450	1.00	13.46		C

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ANISOU 1791 CB THR B 129	1930	1521	1662	-510	189	-205	C
ATOM 1792 OG1ATHR B 129	22.263	35.649	4.663	0.50	22.07		O
ANISOU 1792 OG1ATHR B 129	3228	3147	2009	-937	1172	-1390	O
ATOM 1793 OG1BTHR B 129	22.263	37.147	6.398	0.50	13.82		O
ANISOU 1793 OG1BTHR B 129	1184	2614	1453	-710	497	-261	O
ATOM 1794 CG2ATHR B 129	22.257	37.219	6.480	0.50	20.65		C
ANISOU 1794 CG2ATHR B 129	2801	2908	2136	-1774	1046	-1367	C
ATOM 1795 CG2BTHR B 129	20.742	37.506	4.594	0.50	17.11		C
ANISOU 1795 CG2BTHR B 129	1464	3633	1403	-229	779	1073	C
ATOM 1796 N PHE B 130	19.697	36.432	8.394	1.00	10.35		N
ANISOU 1796 N PHE B 130	1417	1335	1182	186	-120	62	N
ATOM 1797 CA PHE B 130	18.840	37.085	9.379	1.00	10.78		C
ANISOU 1797 CA PHE B 130	1248	1402	1445	-108	144	3	C
ATOM 1798 C PHE B 130	19.531	38.287	10.003	1.00	10.35		C
ANISOU 1798 C PHE B 130	1275	1393	1266	-96	274	-14	C
ATOM 1799 O PHE B 130	20.717	38.210	10.314	1.00	11.01		O
ANISOU 1799 O PHE B 130	1260	1403	1522	-100	282	-193	O
ATOM 1800 CB PHE B 130	18.469	36.093	10.480	1.00	11.10		C
ANISOU 1800 CB PHE B 130	1722	1273	1224	-194	17	-126	C
ATOM 1801 CG PHE B 130	17.636	34.914	10.026	1.00	8.98		C
ANISOU 1801 CG PHE B 130	1347	1105	958	55	-27	-102	C
ATOM 1802 CD1 PHE B 130	16.256	34.927	10.141	1.00	8.83		C
ANISOU 1802 CD1 PHE B 130	1361	1042	951	212	-49	-116	C
ATOM 1803 CD2 PHE B 130	18.238	33.788	9.495	1.00	9.53		C
ANISOU 1803 CD2 PHE B 130	1229	1183	1210	7	269	-51	C
ATOM 1804 CE1 PHE B 130	15.535	33.842	9.698	1.00	8.87		C
ANISOU 1804 CE1 PHE B 130	1114	1152	1104	263	-154	-50	C
ATOM 1805 CE2 PHE B 130	17.519	32.697	9.043	1.00	8.69		C
ANISOU 1805 CE2 PHE B 130	1249	1038	1013	182	65	-78	C
ATOM 1806 CZ PHE B 130	16.156	32.733	9.163	1.00	8.83		C
ANISOU 1806 CZ PHE B 130	1262	839	1252	141	-10	56	C
ATOM 1807 N THR B 131	18.770	39.357	10.201	1.00	11.25		N
ANISOU 1807 N THR B 131	1549	1561	1165	186	6	-191	N
ATOM 1808 CA THR B 131	19.209	40.470	11.047	1.00	11.50		C
ANISOU 1808 CA THR B 131	1937	1399	1034	-264	368	23	C
ATOM 1809 C THR B 131	18.060	40.868	11.962	1.00	10.04		C
ANISOU 1809 C THR B 131	1555	1240	1019	-206	92	-113	C
ATOM 1810 O THR B 131	16.959	40.373	11.786	1.00	11.71		O
ANISOU 1810 O THR B 131	1559	1309	1582	-162	-99	-253	O
ATOM 1811 CB THR B 131	19.654	41.716	10.287	1.00	15.85		C
ANISOU 1811 CB THR B 131	2697	1714	1612	-270	765	416	C
ATOM 1812 OG1 THR B 131	18.580	42.289	9.568	1.00	19.09		O
ANISOU 1812 OG1 THR B 131	3349	2055	1850	403	751	638	O
ATOM 1813 CG2 THR B 131	20.666	41.281	9.214	1.00	21.72		C
ANISOU 1813 CG2 THR B 131	3280	1621	3354	-266	2064	511	C
ATOM 1814 N LYS B 132	18.351	41.753	12.906	1.00	12.73		N
ANISOU 1814 N LYS B 132	1787	1335	1715	-127	-14	-553	N
ATOM 1815 CA LYS B 132	17.289	42.142	13.839	1.00	13.12		C
ANISOU 1815 CA LYS B 132	2343	1201	1442	248	107	-303	C
ATOM 1816 C LYS B 132	16.530	43.358	13.365	1.00	13.00		C
ANISOU 1816 C LYS B 132	2325	1064	1550	105	88	-200	C
ATOM 1817 O LYS B 132	15.653	43.944	13.974	1.00	14.35		O
ANISOU 1817 O LYS B 132	2176	1638	1638	421	-47	-243	O
ATOM 1818 CB LYS B 132	17.928	42.396	15.218	1.00	15.03		C
ANISOU 1818 CB LYS B 132	2790	1470	1450	75	-51	-167	C
ATOM 1819 CG LYS B 132	18.352	41.084	15.915	1.00	18.23		C

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ANISOU 1819	CG	LYS B 132	3637	1299	1989	-388	-842	-87	C
ATOM 1820	CD	LYS B 132	18.855	41.327	17.311	1.00	17.88		C
ANISOU 1820	CD	LYS B 132	3301	1643	1848	-82	-657	-60	C
ATOM 1821	CE	LYS B 132	19.263	40.056	18.026	1.00	20.93		C
ANISOU 1821	CE	LYS B 132	4447	1801	1706	470	-397	-116	C
ATOM 1822	NZ	LYS B 132	19.644	40.428	19.419	1.00	28.81		N
ANISOU 1822	NZ	LYS B 132	6607	2761	1578	1088	-720	-114	N
ATOM 1823	N	VAL B 133	16.801	43.848	12.187	1.00	14.52		N
ANISOU 1823	N	VAL B 133	1914	1525	2078	161	307	270	N
ATOM 1824	CA	VAL B 133	16.129	44.936	11.494	1.00	16.76		C
ANISOU 1824	CA	VAL B 133	2941	2019	1408	534	-211	6	C
ATOM 1825	C	VAL B 133	14.789	44.495	10.878	1.00	16.77		C
ANISOU 1825	C	VAL B 133	2834	2028	1510	532	-140	52	C
ATOM 1826	O	VAL B 133	14.722	43.654	9.966	1.00	20.91		O
ANISOU 1826	O	VAL B 133	3955	2117	1872	39	-422	-154	O
ATOM 1827	CB	VAL B 133	16.979	45.515	10.366	1.00	19.14		C
ANISOU 1827	CB	VAL B 133	3377	1859	2035	-9	-266	494	C
ATOM 1828	CG1	VAL B 133	16.273	46.737	9.800	1.00	19.75		C
ANISOU 1828	CG1	VAL B 133	3249	2383	1870	505	-125	399	C
ATOM 1829	CG2	VAL B 133	18.367	45.836	10.876	1.00	21.79		C
ANISOU 1829	CG2	VAL B 133	2930	3085	2263	484	-44	401	C
ATOM 1830	N	LYS B 134	13.723	45.086	11.401	1.00	22.82		N
ANISOU 1830	N	LYS B 134	2886	2393	3393	484	481	93	N
ATOM 1831	CA	LYS B 134	12.341	44.935	11.031	1.00	25.87		C
ANISOU 1831	CA	LYS B 134	2980	2225	4624	1070	-111	798	C
ATOM 1832	C	LYS B 134	12.150	45.520	9.642	1.00	27.53		C
ANISOU 1832	C	LYS B 134	3894	1696	4871	-341	-789	912	C
ATOM 1833	O	LYS B 134	12.487	46.687	9.444	1.00	38.72		O
ANISOU 1833	O	LYS B 134	6927	1594	6192	-556	-785	1118	O
ATOM 1834	CB	LYS B 134	11.464	45.643	12.052	1.00	36.10		C
ANISOU 1834	CB	LYS B 134	3886	3960	5869	3029	887	1681	C
ATOM 1835	CG	LYS B 134	9.964	45.517	11.964	1.00	43.76		C
ANISOU 1835	CG	LYS B 134	3992	5474	7159	1699	1986	2815	C
ATOM 1836	CD	LYS B 134	9.272	46.041	13.217	1.00	49.45		C
ANISOU 1836	CD	LYS B 134	5093	6279	7416	1817	3250	3658	C
ATOM 1837	CE	LYS B 134	9.159	47.546	13.296	1.00	57.10		C
ANISOU 1837	CE	LYS B 134	6167	6493	9036	1988	2697	1604	C
ATOM 1838	NZ	LYS B 134	7.793	48.016	13.684	1.00	67.65		N
ANISOU 1838	NZ	LYS B 134	7136	8106	10461	2201	3600	-1542	N
ATOM 1839	N	PRO B 135	11.635	44.749	8.706	1.00	33.53		N
ANISOU 1839	N	PRO B 135	4181	2671	5888	-255	-2236	716	N
ATOM 1840	CA	PRO B 135	11.411	45.260	7.346	1.00	36.39		C
ANISOU 1840	CA	PRO B 135	4496	3238	6091	111	-2832	789	C
ATOM 1841	C	PRO B 135	10.644	46.563	7.225	1.00	41.76		C
ANISOU 1841	C	PRO B 135	5061	4196	6610	1108	-3505	467	C
ATOM 1842	O	PRO B 135	10.425	47.265	8.224	1.00	56.84		O
ANISOU 1842	O	PRO B 135	7338	7292	6968	4319	-2205	292	O
ATOM 1843	CB	PRO B 135	10.553	44.133	6.734	1.00	40.62		C
ANISOU 1843	CB	PRO B 135	5022	4078	6332	-825	-3104	1182	C
ATOM 1844	CG	PRO B 135	11.037	42.903	7.436	1.00	40.95		C
ANISOU 1844	CG	PRO B 135	5780	3445	6335	-756	-3413	524	C
ATOM 1845	CD	PRO B 135	11.257	43.327	8.875	1.00	35.62		C
ANISOU 1845	CD	PRO B 135	4544	2550	6441	-398	-3487	481	C
TER 1846		PRO B 135							
HETATM 1847	C11	BTN A5100	32.692	18.083	13.988	1.00	10.37		C
ANISOU 1847	C11	BTN A5100	1075	1800	1066	104	-51	-89	C

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HETATM 1848	O11	BTN	A5100	33.580	17.370	13.453	1.00	10.60	O
ANISOU 1848	O11	BTN	A5100	1095	1676	1258	66	58 -59	O
HETATM 1849	O12	BTN	A5100	32.620	19.328	13.775	1.00	11.25	O
ANISOU 1849	O12	BTN	A5100	1309	1733	1233	121	187 -171	O
HETATM 1850	C10	BTN	A5100	31.715	17.459	14.910	1.00	9.62	C
ANISOU 1850	C10	BTN	A5100	1094	1677	882	-56	-95 -338	C
HETATM 1851	C9	BTN	A5100	31.308	16.037	14.525	1.00	9.96	C
ANISOU 1851	C9	BTN	A5100	1273	1746	764	-62	-92 -426	C
HETATM 1852	C8	BTN	A5100	30.521	16.039	13.193	1.00	8.97	C
ANISOU 1852	C8	BTN	A5100	1415	1312	681	-203	-55 -164	C
HETATM 1853	C7	BTN	A5100	30.101	14.598	12.800	1.00	7.85	C
ANISOU 1853	C7	BTN	A5100	1313	1123	545	50	-49 -89	C
HETATM 1854	C2	BTN	A5100	29.300	14.547	11.505	1.00	9.25	C
ANISOU 1854	C2	BTN	A5100	1250	1365	898	77	-183 -387	C
HETATM 1855	S1	BTN	A5100	27.589	15.197	11.636	1.00	9.67	S
ANISOU 1855	S1	BTN	A5100	1273	1417	984	92	-86 -24	S
HETATM 1856	C6	BTN	A5100	27.249	14.559	9.982	1.00	8.53	C
ANISOU 1856	C6	BTN	A5100	1080	1226	936	-102	-19 24	C
HETATM 1857	C5	BTN	A5100	27.873	13.167	9.931	1.00	8.74	C
ANISOU 1857	C5	BTN	A5100	1226	1102	994	-186	-190 56	C
HETATM 1858	N1	BTN	A5100	27.027	12.120	10.472	1.00	9.35	N
ANISOU 1858	N1	BTN	A5100	1323	1238	991	-151	-18 151	N
HETATM 1859	C3	BTN	A5100	27.551	11.530	11.563	1.00	9.35	C
ANISOU 1859	C3	BTN	A5100	1228	1307	1019	60	18 154	C
HETATM 1860	O3	BTN	A5100	26.987	10.626	12.217	1.00	10.11	O
ANISOU 1860	O3	BTN	A5100	1362	1323	1157	-31	39 220	O
HETATM 1861	N2	BTN	A5100	28.739	12.107	11.832	1.00	8.85	N
ANISOU 1861	N2	BTN	A5100	936	1518	909	187	234 209	N
HETATM 1862	C4	BTN	A5100	29.095	13.155	10.878	1.00	8.54	C
ANISOU 1862	C4	BTN	A5100	1358	1133	753	-71	-133 -99	C
HETATM 1863	C11	BTN	B5200	6.383	24.575	3.172	1.00	10.99	C
ANISOU 1863	C11	BTN	B5200	1387	1780	1010	532	-293 -255	C
HETATM 1864	O11	BTN	B5200	6.104	25.290	2.176	1.00	11.63	O
ANISOU 1864	O11	BTN	B5200	1439	1778	1200	-76	-448 1	O
HETATM 1865	O12	BTN	B5200	6.579	23.335	3.069	1.00	12.11	O
ANISOU 1865	O12	BTN	B5200	1620	1668	1314	224	75 -207	O
HETATM 1866	C10	BTN	B5200	6.463	25.197	4.507	1.00	9.86	C
ANISOU 1866	C10	BTN	B5200	1011	1715	1022	-317	-159 -204	C
HETATM 1867	C9	BTN	B5200	7.013	26.631	4.538	1.00	10.70	C
ANISOU 1867	C9	BTN	B5200	883	1883	1301	-448	-71 -9	C
HETATM 1868	C8	BTN	B5200	8.482	26.645	4.074	1.00	9.52	C
ANISOU 1868	C8	BTN	B5200	818	1617	1180	-116	-142 237	C
HETATM 1869	C7	BTN	B5200	9.102	28.077	4.121	1.00	9.06	C
ANISOU 1869	C7	BTN	B5200	761	1547	1134	-137	59 56	C
HETATM 1870	C2	BTN	B5200	10.585	28.105	3.725	1.00	8.21	C
ANISOU 1870	C2	BTN	B5200	877	1147	1094	92	163 54	C
HETATM 1871	S1	BTN	B5200	11.664	27.428	5.044	1.00	9.57	S
ANISOU 1871	S1	BTN	B5200	1018	1636	983	4	17 47	S
HETATM 1872	C6	BTN	B5200	13.111	28.030	4.125	1.00	9.52	C
ANISOU 1872	C6	BTN	B5200	950	1033	1635	-66	84 47	C
HETATM 1873	C5	BTN	B5200	12.718	29.418	3.625	1.00	7.93	C
ANISOU 1873	C5	BTN	B5200	862	1125	1026	72	-202 -103	C
HETATM 1874	N1	BTN	B5200	12.969	30.463	4.572	1.00	8.20	N
ANISOU 1874	N1	BTN	B5200	1084	1132	899	-94	150 -160	N
HETATM 1875	C3	BTN	B5200	11.845	31.077	5.007	1.00	7.61	C
ANISOU 1875	C3	BTN	B5200	942	882	1068	-10	74 139	C

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HETATM 1876	O3	BTN B5200	11.770	31.995	5.840	1.00	9.32		O
ANISOU 1876	O3	BTN B5200	1180	1241	1120	119	47	-162	O
HETATM 1877	N2	BTN B5200	10.786	30.530	4.348	1.00	8.27		N
ANISOU 1877	N2	BTN B5200	1071	1207	863	6	84	-16	N
HETATM 1878	C4	BTN B5200	11.189	29.455	3.420	1.00	8.33		C
ANISOU 1878	C4	BTN B5200	768	1263	1133	-55	201	-91	C
HETATM 1879	O	HOH A6006	32.078	22.496	8.915	1.00	14.30		O
ANISOU 1879	O	HOH A6006	1815	2227	1391	-120	-415	-58	O
HETATM 1880	O	HOH A6007	29.872	23.565	19.189	1.00	11.66		O
ANISOU 1880	O	HOH A6007	1773	1688	970	-93	-21	-100	O
HETATM 1881	O	HOH A6008	23.727	19.964	21.140	1.00	9.25		O
ANISOU 1881	O	HOH A6008	1410	1474	632	177	82	98	O
HETATM 1882	O	HOH A6009	25.535	27.153	6.718	1.00	12.84		O
ANISOU 1882	O	HOH A6009	2024	1651	1203	70	54	-129	O
HETATM 1883	O	HOH A6011	27.646	12.075	3.383	1.00	13.66		O
ANISOU 1883	O	HOH A6011	1446	1496	2247	93	-314	96	O
HETATM 1884	O	HOH A6013	32.757	17.987	20.082	1.00	11.24		O
ANISOU 1884	O	HOH A6013	1235	2158	877	244	-3	148	O
HETATM 1885	O	HOH A6015	37.965	30.390	10.640	1.00	13.43		O
ANISOU 1885	O	HOH A6015	949	2434	1719	127	181	116	O
HETATM 1886	O	HOH A6016	25.476	21.639	23.068	1.00	13.64		O
ANISOU 1886	O	HOH A6016	1757	1968	1457	239	-10	-215	O
HETATM 1887	O	HOH A6019	5.343	14.684	7.033	1.00	13.04		O
ANISOU 1887	O	HOH A6019	1279	1984	1693	-52	-327	-273	O
HETATM 1888	O	HOH A6020	25.562	18.102	24.366	1.00	12.14		O
ANISOU 1888	O	HOH A6020	1391	1729	1492	2	35	-116	O
HETATM 1889	O	HOH A6025	35.290	28.447	16.005	1.00	14.70		O
ANISOU 1889	O	HOH A6025	1504	2601	1482	-191	105	-273	O
HETATM 1890	O	HOH A6029	4.254	21.080	24.088	1.00	17.91		O
ANISOU 1890	O	HOH A6029	2649	2494	1662	-393	326	-109	O
HETATM 1891	O	HOH A6031	4.335	18.559	14.488	1.00	14.45		O
ANISOU 1891	O	HOH A6031	1260	2288	1945	478	-18	-344	O
HETATM 1892	O	HOH A6032	7.098	16.565	24.200	1.00	18.28		O
ANISOU 1892	O	HOH A6032	2558	2907	1483	367	587	-304	O
HETATM 1893	O	HOH A6033	30.330	11.541	19.556	1.00	13.78		O
ANISOU 1893	O	HOH A6033	1830	1905	1501	-107	71	85	O
HETATM 1894	O	HOH A6034	8.182	20.639	23.169	1.00	15.92		O
ANISOU 1894	O	HOH A6034	2583	1873	1593	-21	497	-231	O
HETATM 1895	O	HOH A6035	4.962	21.205	14.659	1.00	18.00		O
ANISOU 1895	O	HOH A6035	2549	2212	2077	306	-328	-162	O
HETATM 1896	O	HOH A6039	11.813	19.600	20.697	1.00	20.65		O
ANISOU 1896	O	HOH A6039	2888	2458	2501	-315	402	-530	O
HETATM 1897	O	HOH A6041	9.667	21.175	20.754	1.00	18.68		O
ANISOU 1897	O	HOH A6041	3376	2297	1426	-852	-1063	310	O
HETATM 1898	O	HOH A6042	5.479	21.774	20.890	1.00	25.55		O
ANISOU 1898	O	HOH A6042	3668	3534	2506	-1237	1141	-410	O
HETATM 1899	O	HOH A6043	37.764	37.637	8.928	1.00	25.10		O
ANISOU 1899	O	HOH A6043	3831	2551	3153	-858	195	33	O
HETATM 1900	O	HOH A6045	27.240	14.769	31.140	1.00	33.44		O
ANISOU 1900	O	HOH A6045	4171	6581	1952	991	-1730	-2132	O
HETATM 1901	O	HOH A6047	27.864	11.240	6.128	1.00	20.90		O
ANISOU 1901	O	HOH A6047	1978	2449	3513	-118	1	367	O
HETATM 1902	O	HOH A6050	21.660	2.672	8.393	1.00	22.13		O
ANISOU 1902	O	HOH A6050	2982	1324	4103	-165	1084	559	O
HETATM 1903	O	HOH A6051	23.426	8.909	21.679	1.00	19.46		O
ANISOU 1903	O	HOH A6051	2445	2821	2125	66	-204	202	O

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HETATM 1904	O	HOH A6052	37.385	11.734	11.948	1.00	27.98	O
ANISOU 1904	O	HOH A6052	3117	5274	2241	1901	377 -980	O
HETATM 1905	O	HOH A6053	34.839	26.083	14.293	1.00	19.96	O
ANISOU 1905	O	HOH A6053	1768	3858	1958	-729 -476 -328		O
HETATM 1906	O	HOH A6054	33.937	25.079	25.076	1.00	25.02	O
ANISOU 1906	O	HOH A6054	3884	3551	2071	1208 -1593 -1129		O
HETATM 1907	O	HOH A6055	40.578	34.667	8.992	1.00	21.79	O
ANISOU 1907	O	HOH A6055	2204	2922	3153	-579 288 -43		O
HETATM 1908	O	HOH A6057	31.974	22.097	27.163	1.00	23.14	O
ANISOU 1908	O	HOH A6057	3899	2201	2694	-153 -138 599		O
HETATM 1909	O	HOH A6059	3.684	13.182	5.307	1.00	27.34	O
ANISOU 1909	O	HOH A6059	4827	2585	2976	-149 -1877 -861		O
HETATM 1910	O	HOH A6062	29.066	29.348	3.403	1.00	21.75	O
ANISOU 1910	O	HOH A6062	1585	3254	3426	-529 -669 446		O
HETATM 1911	O	HOH A6065	28.644	30.569	7.389	1.00	18.87	O
ANISOU 1911	O	HOH A6065	2125	3310	1737	22 -575 -309		O
HETATM 1912	O	HOH A6066	14.692	1.353	19.165	1.00	18.81	O
ANISOU 1912	O	HOH A6066	2082	2159	2905	-171 286 328		O
HETATM 1913	O	HOH A6069	10.577	14.492	22.902	1.00	26.68	O
ANISOU 1913	O	HOH A6069	3019	3792	3326	639 93 -1222		O
HETATM 1914	O	HOH A6070	28.103	5.425	18.014	1.00	22.79	O
ANISOU 1914	O	HOH A6070	2714	3910	2035	475 -354 555		O
HETATM 1915	O	HOH A6074	4.568	13.068	24.465	1.00	25.12	O
ANISOU 1915	O	HOH A6074	2954	4156	2434	30 1132 -190		O
HETATM 1916	O	HOH A6077	29.890	22.737	29.740	1.00	21.95	O
ANISOU 1916	O	HOH A6077	3485	3617	1237	123 -245 723		O
HETATM 1917	O	HOH A6079	5.211	8.889	11.782	1.00	24.72	O
ANISOU 1917	O	HOH A6079	2842	3061	3490	430 1256 923		O
HETATM 1918	O	HOH A6080	39.478	31.996	3.165	1.00	25.52	O
ANISOU 1918	O	HOH A6080	2150	4780	2767	-1111 781 -401		O
HETATM 1919	O	HOH A6082	28.103	15.823	28.216	1.00	18.75	O
ANISOU 1919	O	HOH A6082	2785	2681	1658	-622 -38 225		O
HETATM 1920	O	HOH A6083	14.362	6.381	23.007	1.00	29.01	O
ANISOU 1920	O	HOH A6083	2878	4331	3815	-400 -17 718		O
HETATM 1921	O	HOH A6085	22.355	8.437	2.755	1.00	24.11	O
ANISOU 1921	O	HOH A6085	3300	2432	3430	-442 449 521		O
HETATM 1922	O	HOH A6086	28.211	13.518	27.023	1.00	21.85	O
ANISOU 1922	O	HOH A6086	2892	3148	2263	18 -949 209		O
HETATM 1923	O	HOH A6087	28.892	8.805	5.038	1.00	19.43	O
ANISOU 1923	O	HOH A6087	2218	2744	2421	261 403 -64		O
HETATM 1924	O	HOH A6094	37.360	20.593	23.281	1.00	27.95	O
ANISOU 1924	O	HOH A6094	3037	3046	4538	-267 -992 429		O
HETATM 1925	O	HOH A6095	18.867	14.921	25.671	1.00	24.35	O
ANISOU 1925	O	HOH A6095	4938	2498	1816	-7 84 -225		O
HETATM 1926	O	HOH A6096	38.209	17.873	24.882	1.00	24.75	O
ANISOU 1926	O	HOH A6096	4041	3426	1937	-566 -513 393		O
HETATM 1927	O	HOH A6097	19.637	10.331	2.680	1.00	37.65	O
ANISOU 1927	O	HOH A6097	4007	6242	4059	-2249 1228 -3157		O
HETATM 1928	O	HOH A6099	34.103	34.120	3.285	1.00	19.60	O
ANISOU 1928	O	HOH A6099	2678	2297	2471	283 324 117		O
HETATM 1929	O	HOH A6100	38.135	28.007	8.999	1.00	27.15	O
ANISOU 1929	O	HOH A6100	4105	2886	3324	18 -584 113		O
HETATM 1930	O	HOH A6110	33.915	23.319	7.220	1.00	25.63	O
ANISOU 1930	O	HOH A6110	3830	2719	3191	713 146 539		O
HETATM 1931	O	HOH A6116	34.401	22.534	26.205	1.00	26.74	O
ANISOU 1931	O	HOH A6116	4491	3518	2150	1021 -645 -403		O

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HETATM 1932	O	HOH A6117	20.270	9.069	25.467	1.00	38.70	O
ANISOU 1932	O	HOH A6117	5788	6585	2331	-559	1289 1025	O
HETATM 1933	O	HOH A6118	36.212	21.216	14.802	1.00	38.69	O
ANISOU 1933	O	HOH A6118	4860	5217	4625	-891	618 2449	O
HETATM 1934	O	HOH A6119	34.545	10.995	26.459	1.00	32.61	O
ANISOU 1934	O	HOH A6119	2258	3908	6225	-225	-575 1529	O
HETATM 1935	O	HOH A6120	36.289	35.457	2.128	1.00	31.62	O
ANISOU 1935	O	HOH A6120	4549	4909	2558	1169	-508 -1011	O
HETATM 1936	O	HOH A6121	25.122	6.970	22.351	1.00	21.82	O
ANISOU 1936	O	HOH A6121	3304	2125	2861	350	166 471	O
HETATM 1937	O	HOH A6122	39.971	34.890	2.597	1.00	37.03	O
ANISOU 1937	O	HOH A6122	5074	5810	3186	-942	-172 -1581	O
HETATM 1938	O	HOH A6125	25.803	17.260	27.135	1.00	25.25	O
ANISOU 1938	O	HOH A6125	2291	4904	2400	-95	-194 -207	O
HETATM 1939	O	HOH A6126	23.152	14.556	0.000	0.50	33.12	O
ANISOU 1939	O	HOH A6126	3494	4007	5084	0	-1427 0	O
HETATM 1940	O	HOH A6127	38.496	26.588	21.699	1.00	31.68	O
ANISOU 1940	O	HOH A6127	3325	5741	2970	1083	-1221 -1202	O
HETATM 1941	O	HOH A6129	16.477	12.655	2.687	1.00	27.57	O
ANISOU 1941	O	HOH A6129	4369	3350	2757	288	-51 442	O
HETATM 1942	O	HOH A6130	20.002	2.795	23.240	1.00	32.24	O
ANISOU 1942	O	HOH A6130	3703	4724	3824	815	-194 730	O
HETATM 1943	O	HOH A6133	1.048	17.567	18.068	1.00	30.72	O
ANISOU 1943	O	HOH A6133	3801	4539	3334	-91	524 651	O
HETATM 1944	O	HOH A6134	12.641	8.443	2.147	1.00	32.07	O
ANISOU 1944	O	HOH A6134	3486	3401	5299	709	525 2010	O
HETATM 1945	O	HOH A6136	9.369	2.132	13.492	1.00	35.86	O
ANISOU 1945	O	HOH A6136	5129	3360	5135	436	1609 178	O
HETATM 1946	O	HOH A6139	35.964	10.649	15.761	1.00	27.40	O
ANISOU 1946	O	HOH A6139	4207	3657	2546	689	-688 222	O
HETATM 1947	O	HOH A6140	5.334	3.176	11.909	1.00	41.77	O
ANISOU 1947	O	HOH A6140	3753	7193	4925	-1800	541 1367	O
HETATM 1948	O	HOH A6142	26.152	21.177	31.345	1.00	51.81	O
ANISOU 1948	O	HOH A6142	5862	7570	6253	1188	-2084 -1567	O
HETATM 1949	O	HOH A6145	39.526	15.996	23.491	1.00	38.27	O
ANISOU 1949	O	HOH A6145	3334	6147	5060	1129	-1065 -1078	O
HETATM 1950	O	HOH A6148	9.746	16.314	24.600	1.00	27.62	O
ANISOU 1950	O	HOH A6148	3227	4812	2456	1186	-481 -127	O
HETATM 1951	O	HOH A6150	15.011	-1.165	11.249	1.00	30.87	O
ANISOU 1951	O	HOH A6150	2304	5206	4220	543	-682 -2568	O
HETATM 1952	O	HOH A6151	15.989	3.950	22.633	1.00	29.33	O
ANISOU 1952	O	HOH A6151	3543	4956	2644	749	419 194	O
HETATM 1953	O	HOH A6152	3.974	11.171	13.109	1.00	25.43	O
ANISOU 1953	O	HOH A6152	3067	3564	3031	-952	684 -454	O
HETATM 1954	O	HOH A6154	35.353	18.079	11.491	1.00	32.26	O
ANISOU 1954	O	HOH A6154	4362	3786	4107	-1258	1541 -508	O
HETATM 1955	O	HOH A6155	31.893	34.626	10.934	1.00	31.86	O
ANISOU 1955	O	HOH A6155	3732	3728	4643	1306	1509 1575	O
HETATM 1956	O	HOH A6156	35.683	21.281	6.714	1.00	42.82	O
ANISOU 1956	O	HOH A6156	5508	5153	5609	-651	-1217 -208	O
HETATM 1957	O	HOH A6157	2.351	20.195	16.756	1.00	34.57	O
ANISOU 1957	O	HOH A6157	4669	5855	2613	-1412	340 484	O
HETATM 1958	O	HOH A6160	35.211	20.679	10.828	1.00	68.99	O
ANISOU 1958	O	HOH A6160	8839	8594	8780	-508	-1078 374	O
HETATM 1959	O	HOH A6161	4.840	8.365	7.384	1.00	33.89	O
ANISOU 1959	O	HOH A6161	5162	5484	2230	-3045	161 -1050	O

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HETATM 1960	O	HOH A6163	10.299	20.198	24.413	1.00	28.56	O	
ANISOU 1960	O	HOH A6163	3235	5679	1937	-66	-63	-270	O
HETATM 1961	O	HOH A6165	17.859	12.359	0.554	1.00	38.41	O	
ANISOU 1961	O	HOH A6165	4324	4642	5629	-278	73	-2367	O
HETATM 1962	O	HOH A6167	34.057	10.296	17.175	1.00	35.19	O	
ANISOU 1962	O	HOH A6167	3087	5366	4917	334	-1266	-1359	O
HETATM 1963	O	HOH A6168	35.973	37.486	11.468	1.00	33.99	O	
ANISOU 1963	O	HOH A6168	5364	3184	4367	-710	-709	-1960	O
HETATM 1964	O	HOH A6169	13.672	4.031	3.227	1.00	34.59	O	
ANISOU 1964	O	HOH A6169	4680	2374	6088	-387	-1514	-1079	O
HETATM 1965	O	HOH A6171	32.853	5.391	10.278	1.00	34.13	O	
ANISOU 1965	O	HOH A6171	4906	3409	4654	1093	1392	588	O
HETATM 1966	O	HOH A6175	37.730	10.342	24.992	1.00	41.95	O	
ANISOU 1966	O	HOH A6175	6347	6039	3552	2222	-1196	-305	O
HETATM 1967	O	HOH A6177	24.488	14.182	26.877	1.00	46.59	O	
ANISOU 1967	O	HOH A6177	6287	6085	5331	733	-801	-3018	O
HETATM 1968	O	HOH A6178	32.310	9.602	19.548	1.00	40.49	O	
ANISOU 1968	O	HOH A6178	5622	5353	4409	1514	-343	-1898	O
HETATM 1969	O	HOH A6181	37.644	22.225	18.775	1.00	36.65	O	
ANISOU 1969	O	HOH A6181	4625	5800	3501	-1638	-987	-134	O
HETATM 1970	O	HOH A6188	2.642	11.825	17.492	1.00	31.37	O	
ANISOU 1970	O	HOH A6188	2801	4745	4374	-1071	302	-651	O
HETATM 1971	O	HOH A6189	0.980	13.883	1.314	1.00	37.74	O	
ANISOU 1971	O	HOH A6189	4157	4152	6032	-911	-600	1061	O
HETATM 1972	O	HOH A6190	38.492	19.651	20.315	1.00	53.80	O	
ANISOU 1972	O	HOH A6190	7177	6675	6591	-533	766	1486	O
HETATM 1973	O	HOH A6195	-3.006	14.907	8.636	1.00	39.48	O	
ANISOU 1973	O	HOH A6195	3985	5570	5444	-130	-969	-168	O
HETATM 1974	O	HOH A6196	17.274	13.138	26.460	1.00	37.81	O	
ANISOU 1974	O	HOH A6196	5318	5828	3221	-1339	1632	-182	O
HETATM 1975	O	HOH A6197	30.929	2.451	8.876	1.00	35.68	O	
ANISOU 1975	O	HOH A6197	3566	5380	4610	952	879	-1001	O
HETATM 1976	O	HOH A6206	24.677	4.323	23.582	1.00	43.38	O	
ANISOU 1976	O	HOH A6206	5830	4431	6221	1513	-1448	564	O
HETATM 1977	O	HOH A6208	41.310	28.277	2.310	1.00	33.63	O	
ANISOU 1977	O	HOH A6208	2859	7245	2672	-193	-1127	808	O
HETATM 1978	O	HOH A6210	-1.566	11.224	10.948	1.00	40.69	O	
ANISOU 1978	O	HOH A6210	4687	5975	4798	-2046	-1520	1236	O
HETATM 1979	O	HOH A6211	1.944	10.322	14.528	1.00	40.16	O	
ANISOU 1979	O	HOH A6211	5420	5179	4660	689	1836	753	O
HETATM 1980	O	HOH A6212	0.542	13.617	18.456	1.00	37.11	O	
ANISOU 1980	O	HOH A6212	4758	3562	5782	-184	-237	297	O
HETATM 1981	O	HOH A6214	7.311	6.581	2.238	1.00	40.70	O	
ANISOU 1981	O	HOH A6214	6126	4692	4645	681	322	-582	O
HETATM 1982	O	HOH A6215	-3.133	11.085	4.597	1.00	44.63	O	
ANISOU 1982	O	HOH A6215	4059	6091	6810	-238	298	-565	O
HETATM 1983	O	HOH A6216	2.209	7.899	8.433	1.00	37.74	O	
ANISOU 1983	O	HOH A6216	4951	4806	4584	-973	-1286	-243	O
HETATM 1984	O	HOH A6219	11.634	2.222	21.494	1.00	37.32	O	
ANISOU 1984	O	HOH A6219	4438	4394	5349	-1431	173	687	O
HETATM 1985	O	HOH A6220	9.923	-0.824	13.138	1.00	45.94	O	
ANISOU 1985	O	HOH A6220	5408	7252	4793	-419	780	369	O
HETATM 1986	O	HOH A6221	3.036	22.119	19.757	1.00	51.90	O	
ANISOU 1986	O	HOH A6221	7074	6620	6025	519	1184	2368	O
HETATM 1987	O	HOH A6223	20.206	6.738	26.946	1.00	48.19	O	
ANISOU 1987	O	HOH A6223	6114	5608	6590	-986	1673	-1462	O

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HETATM 1988	O	HOH A6224	16.218	4.536	25.183	1.00	56.66		O
ANISOU 1988	O	HOH A6224	7863	7231	6433	-628	-117	48	O
HETATM 1989	O	HOH A6225	27.237	9.182	3.192	1.00	39.04		O
ANISOU 1989	O	HOH A6225	6965	4052	3816	2814	-2055	-928	O
HETATM 1990	O	HOH A6227	40.969	25.407	6.255	1.00	46.19		O
ANISOU 1990	O	HOH A6227	3641	7211	6698	1514	-626	162	O
HETATM 1991	O	HOH A6228	16.535	9.035	0.624	1.00	49.86		O
ANISOU 1991	O	HOH A6228	7146	6513	5287	-101	862	19	O
HETATM 1992	O	HOH A6229	2.019	7.106	4.938	1.00	48.61		O
ANISOU 1992	O	HOH A6229	4105	9011	5353	-741	-2028	592	O
HETATM 1993	O	HOH A6233	39.998	37.341	9.379	1.00	48.93		O
ANISOU 1993	O	HOH A6233	7350	5721	5519	-76	-1461	-523	O
HETATM 1994	O	HOH A6234	24.136	7.622	3.958	1.00	42.21		O
ANISOU 1994	O	HOH A6234	5348	6319	4371	436	-647	1062	O
HETATM 1995	O	HOH A6236	40.740	27.652	7.840	1.00	26.44		O
ANISOU 1995	O	HOH A6236	3508	2952	3584	281	-1581	-67	O
HETATM 1996	O	HOH A6239	13.504	19.165	22.823	1.00	40.04		O
ANISOU 1996	O	HOH A6239	5810	4622	4781	-1259	646	1880	O
HETATM 1997	O	HOH B6001	16.556	21.356	15.776	1.00	9.35		O
ANISOU 1997	O	HOH B6001	1382	1238	932	115	44	72	O
HETATM 1998	O	HOH B6002	20.057	25.841	27.673	1.00	9.82		O
ANISOU 1998	O	HOH B6002	1570	1133	1030	17	-654	-133	O
HETATM 1999	O	HOH B6003	26.187	24.342	23.329	1.00	12.19		O
ANISOU 1999	O	HOH B6003	1387	1727	1516	314	-296	-127	O
HETATM 2000	O	HOH B6004	7.630	22.691	14.555	1.00	9.94		O
ANISOU 2000	O	HOH B6004	1507	1168	1102	-2	248	17	O
HETATM 2001	O	HOH B6005	15.635	16.139	-3.056	1.00	15.79		O
ANISOU 2001	O	HOH B6005	1459	2762	1777	-613	448	-911	O
HETATM 2002	O	HOH B6010	16.245	28.132	24.688	1.00	13.87		O
ANISOU 2002	O	HOH B6010	1693	1870	1705	132	-241	126	O
HETATM 2003	O	HOH B6012	30.819	27.985	17.283	1.00	11.25		O
ANISOU 2003	O	HOH B6012	1279	1857	1137	168	-194	-72	O
HETATM 2004	O	HOH B6014	7.807	33.871	14.825	1.00	12.60		O
ANISOU 2004	O	HOH B6014	1735	1885	1166	346	-211	-165	O
HETATM 2005	O	HOH B6017	17.562	30.453	-0.830	1.00	14.24		O
ANISOU 2005	O	HOH B6017	1756	1759	1894	-310	-716	299	O
HETATM 2006	O	HOH B6018	4.631	19.118	8.864	1.00	12.32		O
ANISOU 2006	O	HOH B6018	1384	1932	1366	-228	218	-65	O
HETATM 2007	O	HOH B6021	4.111	31.153	8.669	1.00	11.95		O
ANISOU 2007	O	HOH B6021	1400	1845	1296	-139	118	-183	O
HETATM 2008	O	HOH B6022	2.093	24.754	7.370	1.00	11.70		O
ANISOU 2008	O	HOH B6022	1384	1777	1286	69	75	21	O
HETATM 2009	O	HOH B6023	33.281	29.574	17.559	1.00	13.73		O
ANISOU 2009	O	HOH B6023	1940	1963	1313	15	-215	-143	O
HETATM 2010	O	HOH B6024	20.948	42.828	13.276	1.00	18.22		O
ANISOU 2010	O	HOH B6024	1897	1859	3168	-178	-361	-714	O
HETATM 2011	O	HOH B6026	7.073	37.465	8.968	1.00	15.97		O
ANISOU 2011	O	HOH B6026	2669	2207	1191	595	-7	144	O
HETATM 2012	O	HOH B6027	5.980	35.975	14.306	1.00	13.73		O
ANISOU 2012	O	HOH B6027	1834	2018	1365	349	12	88	O
HETATM 2013	O	HOH B6028	4.004	24.644	15.474	1.00	12.46		O
ANISOU 2013	O	HOH B6028	1377	1798	1560	-265	-53	62	O
HETATM 2014	O	HOH B6030	30.938	34.175	17.936	1.00	17.61		O
ANISOU 2014	O	HOH B6030	2692	1909	2091	-424	-5	-234	O
HETATM 2015	O	HOH B6036	15.845	26.721	-3.227	1.00	14.75		O
ANISOU 2015	O	HOH B6036	1915	2472	1218	621	-430	-444	O

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HETATM 2016	O	HOH B6037	10.424	20.029	0.048	1.00	15.91		O
ANISOU 2016	O	HOH B6037	1983	1960	2103	-35	59	208	O
HETATM 2017	O	HOH B6038	23.210	32.804	4.507	1.00	17.50		O
ANISOU 2017	O	HOH B6038	2787	2167	1695	-658	95	235	O
HETATM 2018	O	HOH B6040	5.352	11.864	-2.884	1.00	14.32		O
ANISOU 2018	O	HOH B6040	1897	2108	1436	-62	-265	-165	O
HETATM 2019	O	HOH B6044	14.422	42.804	16.198	1.00	21.31		O
ANISOU 2019	O	HOH B6044	2133	1752	4212	-218	294	-567	O
HETATM 2020	O	HOH B6046	15.392	41.598	19.236	1.00	20.88		O
ANISOU 2020	O	HOH B6046	3240	1966	2728	72	-209	-57	O
HETATM 2021	O	HOH B6048	25.953	29.697	6.782	1.00	22.55		O
ANISOU 2021	O	HOH B6048	3160	2015	3391	-284	421	324	O
HETATM 2022	O	HOH B6049	4.160	31.439	-1.409	1.00	32.70		O
ANISOU 2022	O	HOH B6049	5294	5725	1405	-1070	710	1242	O
HETATM 2023	O	HOH B6056	12.275	39.041	20.862	1.00	26.05		O
ANISOU 2023	O	HOH B6056	3432	3681	2784	70	508	962	O
HETATM 2024	O	HOH B6058	37.811	29.486	13.140	1.00	27.40		O
ANISOU 2024	O	HOH B6058	2664	4715	3031	1030	-610	497	O
HETATM 2025	O	HOH B6060	15.561	33.706	-0.675	1.00	19.15		O
ANISOU 2025	O	HOH B6060	2785	3247	1243	-57	-314	136	O
HETATM 2026	O	HOH B6061	11.735	43.545	16.110	1.00	23.85		O
ANISOU 2026	O	HOH B6061	2818	3727	2516	247	-307	-902	O
HETATM 2027	O	HOH B6063	16.604	15.422	3.125	1.00	16.94		O
ANISOU 2027	O	HOH B6063	1647	3008	1783	277	-106	13	O
HETATM 2028	O	HOH B6064	9.504	10.578	-9.276	1.00	22.45		O
ANISOU 2028	O	HOH B6064	2791	3515	2223	-1344	-543	-225	O
HETATM 2029	O	HOH B6067	13.648	8.768	-5.112	1.00	28.62		O
ANISOU 2029	O	HOH B6067	5484	2775	2618	-78	1761	-539	O
HETATM 2030	O	HOH B6068	0.421	29.511	15.407	1.00	19.71		O
ANISOU 2030	O	HOH B6068	1478	3373	2637	201	339	251	O
HETATM 2031	O	HOH B6071	26.614	30.353	27.648	1.00	21.05		O
ANISOU 2031	O	HOH B6071	2218	3131	2647	-106	-412	-567	O
HETATM 2032	O	HOH B6072	21.517	35.566	23.639	1.00	27.09		O
ANISOU 2032	O	HOH B6072	2695	5362	2236	-984	-119	-668	O
HETATM 2033	O	HOH B6073	20.365	22.840	27.057	1.00	20.05		O
ANISOU 2033	O	HOH B6073	3226	2556	1837	-211	-78	-270	O
HETATM 2034	O	HOH B6075	7.191	40.159	16.520	1.00	23.41		O
ANISOU 2034	O	HOH B6075	3152	2652	3090	-256	68	-285	O
HETATM 2035	O	HOH B6076	21.944	34.165	2.311	1.00	16.80		O
ANISOU 2035	O	HOH B6076	2569	1880	1936	-135	126	73	O
HETATM 2036	O	HOH B6078	23.152	27.820	0.000	0.50	32.01		O
ANISOU 2036	O	HOH B6078	4331	5211	2620	0	-1547	0	O
HETATM 2037	O	HOH B6081	31.264	45.231	14.026	1.00	29.52		O
ANISOU 2037	O	HOH B6081	3868	2067	5280	-79	-35	47	O
HETATM 2038	O	HOH B6084	6.814	40.034	12.093	1.00	21.88		O
ANISOU 2038	O	HOH B6084	3084	2546	2683	1076	-374	-501	O
HETATM 2039	O	HOH B6088	-0.678	27.054	16.230	1.00	21.46		O
ANISOU 2039	O	HOH B6088	3221	2699	2233	67	1064	-1086	O
HETATM 2040	O	HOH B6089	2.766	31.865	2.024	1.00	24.93		O
ANISOU 2040	O	HOH B6089	2937	3066	3469	625	1146	565	O
HETATM 2041	O	HOH B6090	-3.440	32.769	10.592	1.00	35.49		O
ANISOU 2041	O	HOH B6090	2747	4305	6434	168	-1122	-119	O
HETATM 2042	O	HOH B6091	20.407	33.666	-4.194	1.00	26.10		O
ANISOU 2042	O	HOH B6091	3242	3821	2854	522	91	26	O
HETATM 2043	O	HOH B6092	16.930	41.206	7.972	1.00	29.95		O
ANISOU 2043	O	HOH B6092	3663	2699	5017	-667	1174	-106	O

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HETATM 2044	O	HOH B6093	-3.386	21.909	6.189	1.00	35.29	O
ANISOU 2044	O	HOH B6093	4842	4427	4142	1714	-2136 -2207	O
HETATM 2045	O	HOH B6098	1.595	34.521	8.694	1.00	26.99	O
ANISOU 2045	O	HOH B6098	3564	3016	3676	-1066	-1227 772	O
HETATM 2046	O	HOH B6101	16.796	13.571	-1.994	1.00	30.01	O
ANISOU 2046	O	HOH B6101	2357	4664	4381	773	-131 -158	O
HETATM 2047	O	HOH B6102	14.066	12.382	1.894	1.00	34.76	O
ANISOU 2047	O	HOH B6102	3871	5758	3580	-1753	688 1989	O
HETATM 2048	O	HOH B6103	9.839	8.365	1.915	1.00	33.61	O
ANISOU 2048	O	HOH B6103	4257	4389	4124	1321	-327 901	O
HETATM 2049	O	HOH B6104	27.541	33.800	20.733	1.00	24.29	O
ANISOU 2049	O	HOH B6104	3053	2893	3283	75	-1325 -18	O
HETATM 2050	O	HOH B6105	27.589	40.916	12.312	1.00	26.58	O
ANISOU 2050	O	HOH B6105	3815	2182	4103	43	901 -236	O
HETATM 2051	O	HOH B6106	3.091	14.073	2.874	1.00	25.93	O
ANISOU 2051	O	HOH B6106	3905	3587	2362	-811	632 -248	O
HETATM 2052	O	HOH B6107	19.109	29.858	30.289	1.00	33.11	O
ANISOU 2052	O	HOH B6107	3751	6596	2234	-128	775 -540	O
HETATM 2053	O	HOH B6108	33.343	31.741	24.659	1.00	33.57	O
ANISOU 2053	O	HOH B6108	4839	5330	2585	-735	-33 -1379	O
HETATM 2054	O	HOH B6109	32.741	36.313	13.265	1.00	32.08	O
ANISOU 2054	O	HOH B6109	3317	2883	5988	302	-1050 202	O
HETATM 2055	O	HOH B6111	11.812	6.934	-8.467	1.00	27.41	O
ANISOU 2055	O	HOH B6111	3944	4446	2024	-700	1060 446	O
HETATM 2056	O	HOH B6112	8.892	40.204	18.435	1.00	27.52	O
ANISOU 2056	O	HOH B6112	3394	4288	2772	761	1027 -806	O
HETATM 2057	O	HOH B6113	22.251	21.250	27.630	1.00	39.70	O
ANISOU 2057	O	HOH B6113	8031	4060	2993	-186	-2379 282	O
HETATM 2058	O	HOH B6114	4.632	16.459	2.001	1.00	34.61	O
ANISOU 2058	O	HOH B6114	2841	7491	2817	-1180	618 -1711	O
HETATM 2059	O	HOH B6115	24.296	34.779	22.169	1.00	32.52	O
ANISOU 2059	O	HOH B6115	5689	3802	2863	-609	-1348 225	O
HETATM 2060	O	HOH B6123	27.481	39.052	20.803	1.00	35.02	O
ANISOU 2060	O	HOH B6123	4013	6499	2794	979	-1165 -1909	O
HETATM 2061	O	HOH B6124	30.816	36.748	16.407	1.00	33.83	O
ANISOU 2061	O	HOH B6124	4707	2602	5547	-223	-2287 631	O
HETATM 2062	O	HOH B6128	22.900	40.211	18.394	1.00	40.51	O
ANISOU 2062	O	HOH B6128	6079	5302	4011	121	277 777	O
HETATM 2063	O	HOH B6131	13.069	36.346	22.195	1.00	25.74	O
ANISOU 2063	O	HOH B6131	3776	3184	2819	1354	-1014 -1437	O
HETATM 2064	O	HOH B6132	18.266	39.807	5.842	1.00	26.19	O
ANISOU 2064	O	HOH B6132	4606	2060	3283	173	-18 708	O
HETATM 2065	O	HOH B6135	35.691	28.442	24.055	1.00	46.08	O
ANISOU 2065	O	HOH B6135	4954	6948	5607	-125	332 -1008	O
HETATM 2066	O	HOH B6137	15.305	43.284	7.454	1.00	31.03	O
ANISOU 2066	O	HOH B6137	4465	4080	3246	502	183 230	O
HETATM 2067	O	HOH B6138	20.045	39.217	22.960	1.00	34.22	O
ANISOU 2067	O	HOH B6138	4280	6274	2448	-2719	-785 -256	O
HETATM 2068	O	HOH B6141	4.821	37.166	7.397	1.00	37.06	O
ANISOU 2068	O	HOH B6141	5344	3768	4968	1116	1744 33	O
HETATM 2069	O	HOH B6143	9.581	23.855	22.242	1.00	28.55	O
ANISOU 2069	O	HOH B6143	4422	2900	3524	-1154	600 410	O
HETATM 2070	O	HOH B6144	28.410	44.052	12.899	1.00	43.70	O
ANISOU 2070	O	HOH B6144	5567	3988	7048	1540	674 487	O
HETATM 2071	O	HOH B6146	17.962	32.974	-5.270	1.00	23.86	O
ANISOU 2071	O	HOH B6146	2637	3625	2803	466	339 100	O

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HETATM 2072	O	HOH B6147	22.225	44.253	15.397	1.00	28.63	O
ANISOU 2072	O	HOH B6147	3838	3162	3878	182	-162 -1207	O
HETATM 2073	O	HOH B6149	27.358	31.355	22.218	1.00	32.80	O
ANISOU 2073	O	HOH B6149	3662	5469	3332	-1670	1177 -295	O
HETATM 2074	O	HOH B6153	14.532	35.181	-2.596	1.00	30.30	O
ANISOU 2074	O	HOH B6153	3465	5530	2518	-177 -707	1393	O
HETATM 2075	O	HOH B6158	28.088	38.280	7.942	1.00	32.93	O
ANISOU 2075	O	HOH B6158	4345	2044	6124	-744	1037 -66	O
HETATM 2076	O	HOH B6159	9.415	7.959	-9.631	1.00	26.74	O
ANISOU 2076	O	HOH B6159	3866	3014	3279	-131	1523 187	O
HETATM 2077	O	HOH B6162	17.444	41.553	20.758	1.00	32.36	O
ANISOU 2077	O	HOH B6162	5266	3992	3037	-1386	1381 -398	O
HETATM 2078	O	HOH B6164	28.936	33.867	8.414	1.00	29.77	O
ANISOU 2078	O	HOH B6164	1894	4847	4572	1275	670 1870	O
HETATM 2079	O	HOH B6166	3.096	32.817	4.715	1.00	35.24	O
ANISOU 2079	O	HOH B6166	3509	5981	3901	-854	-181 1914	O
HETATM 2080	O	HOH B6170	-2.527	18.100	10.649	1.00	31.23	O
ANISOU 2080	O	HOH B6170	2035	4501	5330	-412	239 1767	O
HETATM 2081	O	HOH B6172	17.901	33.074	-1.440	1.00	43.77	O
ANISOU 2081	O	HOH B6172	4559	4781	7290	2032	2259 3071	O
HETATM 2082	O	HOH B6173	10.350	19.022	-2.319	1.00	27.01	O
ANISOU 2082	O	HOH B6173	4096	3802	2364	-407	300 -868	O
HETATM 2083	O	HOH B6174	21.496	33.006	27.051	1.00	55.19	O
ANISOU 2083	O	HOH B6174	7073	5865	8033	345	-1075 -1920	O
HETATM 2084	O	HOH B6176	35.018	34.573	18.312	1.00	30.46	O
ANISOU 2084	O	HOH B6176	4875	2982	3715	-740	82 -908	O
HETATM 2085	O	HOH B6179	8.454	37.439	0.843	1.00	40.39	O
ANISOU 2085	O	HOH B6179	7233	4832	3282	458	-343 751	O
HETATM 2086	O	HOH B6180	28.202	40.125	9.599	1.00	38.26	O
ANISOU 2086	O	HOH B6180	5948	5374	3215	-515	-99 118	O
HETATM 2087	O	HOH B6182	-4.069	33.515	13.116	1.00	44.98	O
ANISOU 2087	O	HOH B6182	3612	5317	8162	116	-2228 227	O
HETATM 2088	O	HOH B6183	4.210	38.924	12.233	1.00	42.23	O
ANISOU 2088	O	HOH B6183	5275	5456	5314	1093	269 -367	O
HETATM 2089	O	HOH B6184	0.246	35.108	13.617	1.00	40.80	O
ANISOU 2089	O	HOH B6184	5951	4399	5152	1173	967 -1075	O
HETATM 2090	O	HOH B6185	20.046	30.297	-4.331	1.00	31.36	O
ANISOU 2090	O	HOH B6185	5069	3767	3080	828	-1382 -154	O
HETATM 2091	O	HOH B6186	-1.238	21.165	2.814	1.00	48.50	O
ANISOU 2091	O	HOH B6186	6002	7761	4665	-2069	155 -291	O
HETATM 2092	O	HOH B6187	7.738	40.681	6.947	1.00	36.69	O
ANISOU 2092	O	HOH B6187	4345	5845	3749	321	1559 988	O
HETATM 2093	O	HOH B6191	-7.012	21.258	17.506	1.00	44.87	O
ANISOU 2093	O	HOH B6191	4266	6796	5985	-18	1575 -808	O
HETATM 2094	O	HOH B6192	32.035	35.359	20.226	1.00	42.78	O
ANISOU 2094	O	HOH B6192	6555	5340	4361	502	-963 317	O
HETATM 2095	O	HOH B6193	6.888	3.906	2.350	1.00	62.71	O
ANISOU 2095	O	HOH B6193	7999	8499	7330	-243	-2076 207	O
HETATM 2096	O	HOH B6194	-2.808	21.176	11.080	1.00	38.72	O
ANISOU 2096	O	HOH B6194	4847	2935	6928	-112	2223 595	O
HETATM 2097	O	HOH B6198	20.919	43.041	5.481	1.00	50.09	O
ANISOU 2097	O	HOH B6198	5786	7775	5469	-251	-265 1684	O
HETATM 2098	O	HOH B6199	17.777	21.827	23.543	1.00	22.89	O
ANISOU 2098	O	HOH B6199	2139	3219	3341	-93	358 -1256	O
HETATM 2099	O	HOH B6200	10.038	26.197	21.015	1.00	21.12	O
ANISOU 2099	O	HOH B6200	3491	2739	1792	-416	704 -67	O

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HETATM	2100	O	HOH	B6201	5.953	38.716	15.234	1.00	35.83	O	
ANISOU	2100	O	HOH	B6201	4060	4946	4610	1713	84	-534	O
HETATM	2101	O	HOH	B6202	7.745	41.588	14.220	1.00	23.50	O	
ANISOU	2101	O	HOH	B6202	2187	3283	3460	37	572	-455	O
HETATM	2102	O	HOH	B6203	-4.548	30.901	5.699	1.00	43.99	O	
ANISOU	2102	O	HOH	B6203	3900	8023	4790	1844	85	-554	O
HETATM	2103	O	HOH	B6204	16.055	23.519	22.535	1.00	27.68	O	
ANISOU	2103	O	HOH	B6204	6424	2096	1999	-1011	-326	177	O
HETATM	2104	O	HOH	B6205	6.552	24.421	-0.464	1.00	38.50	O	
ANISOU	2104	O	HOH	B6205	7192	4918	2517	-2017	-113	-227	O
HETATM	2105	O	HOH	B6207	30.685	35.281	8.858	1.00	30.12	O	
ANISOU	2105	O	HOH	B6207	3188	4507	3748	715	743	-836	O
HETATM	2106	O	HOH	B6209	18.522	34.520	26.505	1.00	38.37	O	
ANISOU	2106	O	HOH	B6209	5858	6203	2517	-630	-1057	701	O
HETATM	2107	O	HOH	B6213	15.107	43.802	18.147	1.00	47.01	O	
ANISOU	2107	O	HOH	B6213	6625	6824	4412	-10	392	-960	O
HETATM	2108	O	HOH	B6217	29.548	35.558	21.781	1.00	47.56	O	
ANISOU	2108	O	HOH	B6217	6550	5428	6095	-554	638	-2241	O
HETATM	2109	O	HOH	B6218	2.926	33.043	7.261	1.00	38.66	O	
ANISOU	2109	O	HOH	B6218	4287	5868	4534	-1557	135	-1111	O
HETATM	2110	O	HOH	B6222	24.038	41.872	21.917	1.00	52.27	O	
ANISOU	2110	O	HOH	B6222	7740	5768	6353	-18	318	-2423	O
HETATM	2111	O	HOH	B6226	5.533	7.313	-5.532	1.00	44.61	O	
ANISOU	2111	O	HOH	B6226	6065	6247	4636	-1393	-658	-501	O
HETATM	2112	O	HOH	B6230	-2.615	16.869	16.180	1.00	48.17	O	
ANISOU	2112	O	HOH	B6230	5034	5954	7314	-2107	2891	-1348	O
HETATM	2113	O	HOH	B6231	2.860	21.392	1.351	1.00	37.91	O	
ANISOU	2113	O	HOH	B6231	4846	5309	4248	-944	587	-2109	O
HETATM	2114	O	HOH	B6232	6.492	17.309	-6.928	1.00	53.43	O	
ANISOU	2114	O	HOH	B6232	6085	7181	7035	1535	1594	-1005	O
HETATM	2115	O	HOH	B6235	7.619	17.176	-2.964	1.00	53.93	O	
ANISOU	2115	O	HOH	B6235	6035	5995	8461	-511	-2120	2648	O
HETATM	2116	O	HOH	B6237	38.858	26.800	14.961	1.00	43.59	O	
ANISOU	2116	O	HOH	B6237	3313	5648	7601	-587	493	-1421	O
HETATM	2117	O	HOH	B6238	-8.157	28.766	15.869	1.00	23.85	O	
ANISOU	2117	O	HOH	B6238	2286	3156	3619	-658	-366	-896	O

ENDMDL

MODEL 2

ATOM	1	N	GLU	A	14	40.462	8.434	-15.503	1.00	53.74	N	
ANISOU	1	N	GLU	A	14	8289	3315	8816	597	-43	1195	N
ATOM	2	CA	GLU	A	14	40.156	8.766	-16.898	1.00	52.97	C	
ANISOU	2	CA	GLU	A	14	6613	3639	9875	-313	-942	102	C
ATOM	3	C	GLU	A	14	39.773	7.621	-17.817	1.00	48.00	C	
ANISOU	3	C	GLU	A	14	6523	3764	7952	-1042	-740	-273	C
ATOM	4	O	GLU	A	14	38.779	7.514	-18.518	1.00	36.82	O	
ANISOU	4	O	GLU	A	14	5812	3028	5151	-41	748	-1873	O
ATOM	5	CB	GLU	A	14	41.384	9.403	-17.590	1.00	58.23	C	
ANISOU	5	CB	GLU	A	14	7804	3914	10408	-195	-504	-1358	C
ATOM	6	CG	GLU	A	14	41.366	9.244	-19.115	1.00	62.44	C	
ANISOU	6	CG	GLU	A	14	8211	5329	10183	-1988	-814	-2457	C
ATOM	7	CD	GLU	A	14	42.242	10.255	-19.833	1.00	70.23	C	
ANISOU	7	CD	GLU	A	14	9008	6572	11105	-1956	-769	-3974	C
ATOM	8	OE1	GLU	A	14	42.240	11.442	-19.431	1.00	75.10	O	
ANISOU	8	OE1	GLU	A	14	10576	5948	12013	-1395	-1587	-4749	O
ATOM	9	OE2	GLU	A	14	42.940	9.881	-20.807	1.00	82.05	O	
ANISOU	9	OE2	GLU	A	14	11208	9169	10798	-2111	367	-4624	O

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ATOM	10	N	ALA	A	15	40.662	6.605	-17.885	1.00	46.91	N	
ANISOU	10	N	ALA	A	15	5797	4347	7678	-955	470	-272	N
ATOM	11	CA	ALA	A	15	40.102	5.471	-18.643	1.00	41.93	C	
ANISOU	11	CA	ALA	A	15	5937	4258	5738	-1396	761	-479	C
ATOM	12	C	ALA	A	15	39.094	4.910	-17.635	1.00	39.79	C	
ANISOU	12	C	ALA	A	15	4487	5251	5380	-1010	108	60	C
ATOM	13	O	ALA	A	15	38.005	4.495	-17.994	1.00	54.17	O	
ANISOU	13	O	ALA	A	15	3240	11232	6108	-1815	-761	-1026	O
ATOM	14	CB	ALA	A	15	41.199	4.575	-19.133	1.00	46.60	C	
ANISOU	14	CB	ALA	A	15	4854	6935	5917	-1337	344	1117	C
ATOM	15	N	GLY	A	16	39.482	5.034	-16.377	1.00	36.20	N	
ANISOU	15	N	GLY	A	16	3609	4793	5351	-1934	170	-87	N
ATOM	16	CA	GLY	A	16	38.669	4.852	-15.216	1.00	27.04	C	
ANISOU	16	CA	GLY	A	16	2453	2609	5211	-748	-390	686	C
ATOM	17	C	GLY	A	16	37.286	5.421	-15.385	1.00	20.51	C	
ANISOU	17	C	GLY	A	16	2409	1828	3556	-222	-1092	792	C
ATOM	18	O	GLY	A	16	36.291	4.702	-15.332	1.00	18.73	O	
ANISOU	18	O	GLY	A	16	2564	1907	2648	-133	-320	279	O
ATOM	19	N	ILE	A	17	37.232	6.731	-15.582	1.00	16.43	N	
ANISOU	19	N	ILE	A	17	1994	2089	2158	-92	-219	52	N
ATOM	20	CA	ILE	A	17	35.930	7.389	-15.574	1.00	15.09	C	
ANISOU	20	CA	ILE	A	17	1967	1820	1946	61	-173	-368	C
ATOM	21	C	ILE	A	17	35.133	7.123	-16.839	1.00	13.82	C	
ANISOU	21	C	ILE	A	17	1785	1859	1608	168	128	-485	C
ATOM	22	O	ILE	A	17	33.912	6.969	-16.860	1.00	13.31	O	
ANISOU	22	O	ILE	A	17	1689	1713	1656	-135	136	59	O
ATOM	23	CB	ILE	A	17	36.130	8.911	-15.370	1.00	14.61	C	
ANISOU	23	CB	ILE	A	17	2242	1676	1635	63	-287	-699	C
ATOM	24	CG1	ILE	A	17	36.624	9.207	-13.953	1.00	15.94	C	
ANISOU	24	CG1	ILE	A	17	2302	1892	1864	221	-467	-519	C
ATOM	25	CG2	ILE	A	17	34.839	9.645	-15.654	1.00	15.41	C	
ANISOU	25	CG2	ILE	A	17	2238	1955	1663	-64	-272	-554	C
ATOM	26	CD1	ILE	A	17	37.179	10.567	-13.701	1.00	17.51	C	
ANISOU	26	CD1	ILE	A	17	2832	1939	1882	470	2	-427	C
ATOM	27	N	THR	A	18	35.851	7.054	-17.964	1.00	14.71	N	
ANISOU	27	N	THR	A	18	1873	1870	1845	57	314	-410	N
ATOM	28	CA	THR	A	18	35.179	6.882	-19.228	1.00	13.75	C	
ANISOU	28	CA	THR	A	18	1758	1711	1753	-86	566	141	C
ATOM	29	C	THR	A	18	34.392	5.595	-19.304	1.00	14.02	C	
ANISOU	29	C	THR	A	18	1630	1451	2245	-346	909	487	C
ATOM	30	O	THR	A	18	34.917	4.518	-19.037	1.00	15.46	O	
ANISOU	30	O	THR	A	18	1532	1726	2617	-303	714	77	O
ATOM	31	CB	THR	A	18	36.253	6.836	-20.331	1.00	13.54	C	
ANISOU	31	CB	THR	A	18	1584	1358	2203	16	679	970	C
ATOM	32	OG1	THR	A	18	36.876	8.092	-20.482	1.00	13.66	O	
ANISOU	32	OG1	THR	A	18	1677	1532	1980	45	572	339	O
ATOM	33	CG2	THR	A	18	35.577	6.514	-21.657	1.00	14.20	C	
ANISOU	33	CG2	THR	A	18	2319	1327	1750	176	594	239	C
ATOM	34	N	GLY	A	19	33.148	5.729	-19.673	1.00	12.62	N	
ANISOU	34	N	GLY	A	19	1774	1140	1882	-99	702	-111	N
ATOM	35	CA	GLY	A	19	32.267	4.584	-19.812	1.00	13.82	C	
ANISOU	35	CA	GLY	A	19	1981	1213	2058	-40	746	153	C
ATOM	36	C	GLY	A	19	30.801	4.917	-19.575	1.00	11.60	C	
ANISOU	36	C	GLY	A	19	1828	1340	1239	46	347	-131	C
ATOM	37	O	GLY	A	19	30.392	6.077	-19.622	1.00	12.66	O	
ANISOU	37	O	GLY	A	19	1799	1377	1635	-81	321	-66	O

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ATOM	38	N	THR	A	20	30.048	3.843	-19.312	1.00	12.37	N
ANISOU	38	N	THR	A	20	1927	1434	1339	187	395	19
ATOM	39	CA	THR	A	20	28.633	3.903	-19.002	1.00	11.69	C
ANISOU	39	CA	THR	A	20	1898	1262	1283	96	375	43
ATOM	40	C	THR	A	20	28.412	3.578	-17.529	1.00	11.49	C
ANISOU	40	C	THR	A	20	1752	1267	1348	-168	327	-236
ATOM	41	O	THR	A	20	28.975	2.632	-16.990	1.00	13.78	O
ANISOU	41	O	THR	A	20	1893	1342	2000	-118	310	-494
ATOM	42	CB	THR	A	20	27.891	2.903	-19.915	1.00	14.18	C
ANISOU	42	CB	THR	A	20	1990	1729	1670	160	163	249
ATOM	43	OG1	THR	A	20	28.082	3.256	-21.283	1.00	15.85	O
ANISOU	43	OG1	THR	A	20	2539	2011	1472	-66	125	402
ATOM	44	CG2	THR	A	20	26.393	2.955	-19.719	1.00	16.25	C
ANISOU	44	CG2	THR	A	20	1899	1882	2393	179	106	-24
ATOM	45	N	TRP	A	21	27.567	4.360	-16.911	1.00	11.20	N
ANISOU	45	N	TRP	A	21	1618	1340	1297	42	353	-109
ATOM	46	CA	TRP	A	21	27.257	4.306	-15.500	1.00	11.19	C
ANISOU	46	CA	TRP	A	21	1677	1169	1406	110	474	-223
ATOM	47	C	TRP	A	21	25.766	4.346	-15.277	1.00	12.24	C
ANISOU	47	C	TRP	A	21	1607	1642	1403	126	373	-45
ATOM	48	O	TRP	A	21	25.070	5.002	-16.079	1.00	12.55	O
ANISOU	48	O	TRP	A	21	1710	1575	1484	21	414	-65
ATOM	49	CB	TRP	A	21	27.904	5.513	-14.837	1.00	11.73	C
ANISOU	49	CB	TRP	A	21	1542	1430	1486	-6	347	37
ATOM	50	CG	TRP	A	21	29.382	5.635	-15.022	1.00	11.38	C
ANISOU	50	CG	TRP	A	21	1487	1414	1421	-86	370	65
ATOM	51	CD1	TRP	A	21	30.068	6.076	-16.113	1.00	12.53	C
ANISOU	51	CD1	TRP	A	21	1691	1513	1556	-174	509	-219
ATOM	52	CD2	TRP	A	21	30.343	5.295	-14.009	1.00	10.91	C
ANISOU	52	CD2	TRP	A	21	1539	1349	1257	192	318	206
ATOM	53	NE1	TRP	A	21	31.429	6.025	-15.835	1.00	13.04	N
ANISOU	53	NE1	TRP	A	21	1662	1496	1796	-40	555	-209
ATOM	54	CE2	TRP	A	21	31.613	5.552	-14.561	1.00	11.14	C
ANISOU	54	CE2	TRP	A	21	1432	1229	1574	98	379	252
ATOM	55	CE3	TRP	A	21	30.246	4.803	-12.705	1.00	12.15	C
ANISOU	55	CE3	TRP	A	21	1658	1420	1539	-193	356	-143
ATOM	56	CZ2	TRP	A	21	32.753	5.312	-13.804	1.00	12.87	C
ANISOU	56	CZ2	TRP	A	21	1539	1436	1915	15	300	128
ATOM	57	CZ3	TRP	A	21	31.393	4.570	-11.965	1.00	13.33	C
ANISOU	57	CZ3	TRP	A	21	1760	1679	1626	-414	276	-79
ATOM	58	CH2	TRP	A	21	32.649	4.831	-12.529	1.00	12.32	C
ANISOU	58	CH2	TRP	A	21	1692	1303	1684	-59	133	424
ATOM	59	N	TYR	A	22	25.303	3.706	-14.208	1.00	13.53	N
ANISOU	59	N	TYR	A	22	1484	1517	2140	-77	557	-535
ATOM	60	CA	ATYR	A	22	23.878	3.810	-13.851	0.50	12.27	C
ANISOU	60	CA	ATYR	A	22	1453	1300	1909	54	482	45
ATOM	61	CA	BTYR	A	22	23.914	3.871	-13.793	0.50	12.36	C
ANISOU	61	CA	BTYR	A	22	1500	1294	1903	-10	532	-58
ATOM	62	C	ATYR	A	22	23.754	4.169	-12.375	0.50	11.75	C
ANISOU	62	C	ATYR	A	22	1405	1031	2028	102	226	310
ATOM	63	C	BTYR	A	22	23.857	4.300	-12.337	0.50	12.18	C
ANISOU	63	C	BTYR	A	22	1441	1144	2041	-72	181	201
ATOM	64	O	ATYR	A	22	24.589	3.711	-11.580	0.50	14.25	O
ANISOU	64	O	ATYR	A	22	1895	1650	1868	-479	558	-164
ATOM	65	O	BTYR	A	22	24.773	4.024	-11.554	0.50	11.92	O
ANISOU	65	O	BTYR	A	22	1226	1075	2230	402	181	-224

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ATOM	66	CB	ATYR	A	22	23.135	2.522	-14.145	0.50	10.49	C	
ANISOU	66	CB	ATYR	A	22	1751	1402	831	168	13	-219	C
ATOM	67	CB	BTYR	A	22	23.138	2.568	-13.948	0.50	10.33	C	
ANISOU	67	CB	BTYR	A	22	1403	1246	1277	-107	79	-116	C
ATOM	68	CG	ATYR	A	22	23.184	1.960	-15.546	0.50	10.29	C	
ANISOU	68	CG	ATYR	A	22	1990	1245	674	-230	278	-432	C
ATOM	69	CG	BTYR	A	22	23.464	1.597	-12.838	0.50	8.88	C	
ANISOU	69	CG	BTYR	A	22	1338	1110	926	-47	-257	214	C
ATOM	70	CD1	ATYR	A	22	23.535	0.632	-15.769	0.50	12.15	C	
ANISOU	70	CD1	ATYR	A	22	2316	1464	837	-623	178	-412	C
ATOM	71	CD1	BTYR	A	22	22.591	1.382	-11.778	0.50	8.60	C	
ANISOU	71	CD1	BTYR	A	22	1496	649	1122	-329	-93	74	C
ATOM	72	CD2	ATYR	A	22	22.666	2.641	-16.640	0.50	12.04	C	
ANISOU	72	CD2	ATYR	A	22	2501	1278	796	-262	115	-482	C
ATOM	73	CD2	BTYR	A	22	24.583	0.770	-12.939	0.50	9.42	C	
ANISOU	73	CD2	BTYR	A	22	1256	1170	1152	-6	-82	59	C
ATOM	74	CE1	ATYR	A	22	23.441	0.061	-17.031	0.50	12.92	C	
ANISOU	74	CE1	ATYR	A	22	2610	1236	1063	-583	-125	-258	C
ATOM	75	CE1	BTYR	A	22	22.817	0.358	-10.881	0.50	10.11	C	
ANISOU	75	CE1	BTYR	A	22	1383	913	1545	-111	-343	-280	C
ATOM	76	CE2	ATYR	A	22	22.607	2.096	-17.915	0.50	12.73	C	
ANISOU	76	CE2	ATYR	A	22	2803	1376	658	-413	167	-646	C
ATOM	77	CE2	BTYR	A	22	24.740	-0.340	-12.121	0.50	11.77	C	
ANISOU	77	CE2	BTYR	A	22	1606	1310	1558	-190	-214	-120	C
ATOM	78	CZ	ATYR	A	22	23.033	0.808	-18.112	0.50	15.01	C	
ANISOU	78	CZ	ATYR	A	22	2927	1623	1154	-695	-801	-33	C
ATOM	79	CZ	BTYR	A	22	23.889	-0.520	-11.052	0.50	9.82	C	
ANISOU	79	CZ	BTYR	A	22	1631	685	1413	-153	-314	-174	C
ATOM	80	OH	ATYR	A	22	23.153	0.293	-19.386	0.50	18.95	O	
ANISOU	80	OH	ATYR	A	22	4551	1377	1272	-392	-1626	251	O
ATOM	81	OH	BTYR	A	22	24.049	-1.544	-10.147	0.50	11.99	O	
ANISOU	81	OH	BTYR	A	22	2558	709	1289	-440	-446	-55	O
ATOM	82	N	ASN	A	23	22.761	4.978	-11.988	1.00	12.86	N	
ANISOU	82	N	ASN	A	23	1489	1329	2070	-72	324	241	N
ATOM	83	CA	ASN	A	23	22.559	5.281	-10.572	1.00	12.23	C	
ANISOU	83	CA	ASN	A	23	1344	1231	2073	34	163	357	C
ATOM	84	C	ASN	A	23	21.363	4.501	-10.003	1.00	12.29	C	
ANISOU	84	C	ASN	A	23	1526	1558	1585	266	-154	-14	C
ATOM	85	O	ASN	A	23	20.736	3.681	-10.672	1.00	12.82	O	
ANISOU	85	O	ASN	A	23	1637	1326	1908	256	-30	204	O
ATOM	86	CB	ASN	A	23	22.449	6.784	-10.326	1.00	12.21	C	
ANISOU	86	CB	ASN	A	23	1454	1236	1947	-50	-8	229	C
ATOM	87	CG	ASN	A	23	21.175	7.418	-10.818	1.00	10.56	C	
ANISOU	87	CG	ASN	A	23	1551	1215	1246	-34	-129	464	C
ATOM	88	OD1	ASN	A	23	20.202	6.756	-11.155	1.00	11.88	O	
ANISOU	88	OD1	ASN	A	23	1517	1384	1613	168	-35	243	O
ATOM	89	ND2	ASN	A	23	21.178	8.740	-10.838	1.00	11.77	N	
ANISOU	89	ND2	ASN	A	23	1537	1173	1761	-85	192	308	N
ATOM	90	N	GLN	A	24	21.111	4.772	-8.731	1.00	12.40	N	
ANISOU	90	N	GLN	A	24	1696	1614	1403	102	-353	-260	N
ATOM	91	CA	GLN	A	24	20.097	4.037	-7.978	1.00	14.13	C	
ANISOU	91	CA	GLN	A	24	2071	1649	1648	82	75	-177	C
ATOM	92	C	GLN	A	24	18.687	4.308	-8.435	1.00	12.56	C	
ANISOU	92	C	GLN	A	24	1933	1214	1625	414	215	-54	C
ATOM	93	O	GLN	A	24	17.764	3.562	-8.092	1.00	15.48	O	
ANISOU	93	O	GLN	A	24	2468	1839	1575	1018	-77	-379	O

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ATOM	94	CB	GLN	A	24	20.252	4.381	-6.500	1.00	13.70		C
ANISOU	94	CB	GLN	A	24	1401	2034	1769	-85	347	152	C
ATOM	95	CG	GLN	A	24	19.824	5.770	-6.082	1.00	13.84		C
ANISOU	95	CG	GLN	A	24	1440	1893	1926	-39	305	40	C
ATOM	96	CD	GLN	A	24	20.623	6.954	-6.575	1.00	16.65		C
ANISOU	96	CD	GLN	A	24	1795	2118	2413	219	110	-261	C
ATOM	97	OE1	GLN	A	24	21.776	6.918	-6.981	1.00	16.44		O
ANISOU	97	OE1	GLN	A	24	1894	1509	2844	506	333	411	O
ATOM	98	NE2	GLN	A	24	19.955	8.105	-6.544	1.00	15.57		N
ANISOU	98	NE2	GLN	A	24	1771	1991	2155	365	375	-183	N
ATOM	99	N	LEU	A	25	18.490	5.387	-9.158	1.00	10.96		N
ANISOU	99	N	LEU	A	25	1595	1149	1420	456	27	31	N
ATOM	100	CA	LEU	A	25	17.180	5.633	-9.744	1.00	11.71		C
ANISOU	100	CA	LEU	A	25	1308	1631	1509	524	212	127	C
ATOM	101	C	LEU	A	25	16.988	4.923	-11.071	1.00	11.06		C
ANISOU	101	C	LEU	A	25	1447	1560	1196	482	146	-254	C
ATOM	102	O	LEU	A	25	15.866	4.940	-11.603	1.00	14.81		O
ANISOU	102	O	LEU	A	25	1762	2213	1651	258	-265	62	O
ATOM	103	CB	LEU	A	25	17.043	7.131	-9.987	1.00	12.06		C
ANISOU	103	CB	LEU	A	25	1393	1784	1404	99	36	67	C
ATOM	104	CG	LEU	A	25	17.025	7.969	-8.704	1.00	13.35		C
ANISOU	104	CG	LEU	A	25	2048	1601	1422	241	12	52	C
ATOM	105	CD1	LEU	A	25	17.265	9.424	-9.011	1.00	14.35		C
ANISOU	105	CD1	LEU	A	25	2013	1541	1898	-61	157	-79	C
ATOM	106	CD2	LEU	A	25	15.692	7.724	-7.990	1.00	20.25		C
ANISOU	106	CD2	LEU	A	25	3257	2473	1966	627	1199	242	C
ATOM	107	N	GLY	A	26	18.054	4.351	-11.633	1.00	12.27		N
ANISOU	107	N	GLY	A	26	1794	1456	1413	328	255	2	N
ATOM	108	CA	GLY	A	26	17.944	3.766	-12.956	1.00	12.97		C
ANISOU	108	CA	GLY	A	26	2157	1275	1495	240	-46	33	C
ATOM	109	C	GLY	A	26	18.347	4.690	-14.075	1.00	12.16		C
ANISOU	109	C	GLY	A	26	1715	1534	1371	496	-159	48	C
ATOM	110	O	GLY	A	26	18.122	4.391	-15.237	1.00	13.44		O
ANISOU	110	O	GLY	A	26	2436	1301	1370	264	265	284	O
ATOM	111	N	SER	A	27	18.889	5.876	-13.731	1.00	11.98		N
ANISOU	111	N	SER	A	27	1322	1739	1488	560	-138	53	N
ATOM	112	CA	SER	A	27	19.390	6.795	-14.718	1.00	11.09		C
ANISOU	112	CA	SER	A	27	1265	1489	1459	462	259	337	C
ATOM	113	C	SER	A	27	20.715	6.295	-15.318	1.00	11.40		C
ANISOU	113	C	SER	A	27	1608	1370	1351	15	203	431	C
ATOM	114	O	SER	A	27	21.452	5.573	-14.618	1.00	15.23		O
ANISOU	114	O	SER	A	27	2000	1309	2477	-55	-127	27	O
ATOM	115	CB	ASER	A	27	19.532	8.183	-14.103	0.80	10.19		C
ANISOU	115	CB	ASER	A	27	1510	1308	1052	-196	-114	248	C
ATOM	116	CB	BSER	A	27	19.659	8.179	-14.119	0.20	10.48		C
ANISOU	116	CB	BSER	A	27	1455	1287	1239	-54	123	281	C
ATOM	117	OG	ASER	A	27	18.263	8.667	-13.645	0.80	9.63		O
ANISOU	117	OG	ASER	A	27	1128	1529	1001	105	-192	-8	O
ATOM	118	OG	BSER	A	27	18.697	8.531	-13.136	0.20	13.97		O
ANISOU	118	OG	BSER	A	27	1942	2345	1021	-588	154	214	O
ATOM	119	N	THR	A	28	20.993	6.691	-16.538	1.00	13.59		N
ANISOU	119	N	THR	A	28	1648	1785	1732	356	619	98	N
ATOM	120	CA	THR	A	28	22.138	6.360	-17.363	1.00	15.36		C
ANISOU	120	CA	THR	A	28	1784	1923	2130	380	846	157	C
ATOM	121	C	THR	A	28	23.048	7.568	-17.636	1.00	10.93		C
ANISOU	121	C	THR	A	28	1173	1600	1380	-133	387	-236	C

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ATOM	122	O	THR	A	28	22.504	8.555	-18.106	1.00	14.66	O	
ANISOU	122	O	THR	A	28	1451	1770	2350	-133	-494	-204	O
ATOM	123	CB	THR	A	28	21.758	5.965	-18.824	1.00	20.52	C	
ANISOU	123	CB	THR	A	28	2484	2485	2828	-299	703	1817	C
ATOM	124	OG1	THR	A	28	20.860	4.895	-18.779	1.00	19.95	O	
ANISOU	124	OG1	THR	A	28	2178	3565	1838	52	-158	419	O
ATOM	125	CG2	THR	A	28	23.005	5.647	-19.670	1.00	22.87	C	
ANISOU	125	CG2	THR	A	28	2403	3314	2971	-180	837	1564	C
ATOM	126	N	PHE	A	29	24.325	7.453	-17.398	1.00	10.86	N	
ANISOU	126	N	PHE	A	29	1175	1777	1175	-307	375	-184	N
ATOM	127	CA	PHE	A	29	25.345	8.482	-17.616	1.00	14.19	C	
ANISOU	127	CA	PHE	A	29	1076	2555	1762	-17	338	-258	C
ATOM	128	C	PHE	A	29	26.388	7.830	-18.511	1.00	14.66	C	
ANISOU	128	C	PHE	A	29	1731	1681	2160	168	942	-576	C
ATOM	129	O	PHE	A	29	26.964	6.786	-18.175	1.00	14.63	O	
ANISOU	129	O	PHE	A	29	1771	1853	1933	-31	739	-478	O
ATOM	130	CB	PHE	A	29	25.885	8.823	-16.244	1.00	18.51	C	
ANISOU	130	CB	PHE	A	29	2444	1905	2685	-603	-603	696	C
ATOM	131	CG	PHE	A	29	27.100	9.623	-15.980	1.00	18.77	C	
ANISOU	131	CG	PHE	A	29	2684	894	3555	-974	-1510	10	C
ATOM	132	CD1	PHE	A	29	27.294	10.797	-16.664	1.00	17.88	C	
ANISOU	132	CD1	PHE	A	29	1998	2821	1972	-589	-273	-765	C
ATOM	133	CD2	PHE	A	29	28.018	9.263	-14.994	1.00	19.86	C	
ANISOU	133	CD2	PHE	A	29	3744	725	3077	-540	-1941	136	C
ATOM	134	CE1	PHE	A	29	28.389	11.620	-16.437	1.00	18.92	C	
ANISOU	134	CE1	PHE	A	29	2369	2675	2144	-355	-250	-733	C
ATOM	135	CE2	PHE	A	29	29.129	10.008	-14.789	1.00	17.88	C	
ANISOU	135	CE2	PHE	A	29	3315	1683	1798	-416	-1279	297	C
ATOM	136	CZ	PHE	A	29	29.303	11.220	-15.468	1.00	18.61	C	
ANISOU	136	CZ	PHE	A	29	2291	2651	2128	-237	-383	-448	C
ATOM	137	N	ILE	A	30	26.636	8.399	-19.675	1.00	12.57	N	
ANISOU	137	N	ILE	A	30	1404	1811	1563	235	326	-187	N
ATOM	138	CA	ILE	A	30	27.660	7.945	-20.590	1.00	10.65	C	
ANISOU	138	CA	ILE	A	30	1551	1375	1120	17	69	-50	C
ATOM	139	C	ILE	A	30	28.649	9.085	-20.735	1.00	10.39	C	
ANISOU	139	C	ILE	A	30	1391	1424	1132	-17	248	-211	C
ATOM	140	O	ILE	A	30	28.237	10.203	-21.048	1.00	12.85	O	
ANISOU	140	O	ILE	A	30	1522	1492	1869	-10	147	-385	O
ATOM	141	CB	ILE	A	30	27.028	7.634	-21.955	1.00	16.44	C	
ANISOU	141	CB	ILE	A	30	2225	2569	1453	467	-239	145	C
ATOM	142	CG1	ILE	A	30	26.007	6.494	-21.855	1.00	19.13	C	
ANISOU	142	CG1	ILE	A	30	1864	2626	2778	426	-716	208	C
ATOM	143	CG2	ILE	A	30	28.136	7.399	-22.934	1.00	22.81	C	
ANISOU	143	CG2	ILE	A	30	3312	4024	1331	1128	320	932	C
ATOM	144	CD1	ILE	A	30	25.298	6.260	-23.177	1.00	24.92	C	
ANISOU	144	CD1	ILE	A	30	3001	3196	3272	1028	-1681	-672	C
ATOM	145	N	VAL	A	31	29.905	8.861	-20.453	1.00	10.87	N	
ANISOU	145	N	VAL	A	31	1458	1380	1293	-77	200	160	N
ATOM	146	CA	VAL	A	31	30.882	9.932	-20.302	1.00	10.84	C	
ANISOU	146	CA	VAL	A	31	1525	1165	1427	-80	44	-30	C
ATOM	147	C	VAL	A	31	32.218	9.493	-20.899	1.00	10.75	C	
ANISOU	147	C	VAL	A	31	1476	1164	1445	-31	-43	122	C
ATOM	148	O	VAL	A	31	32.628	8.311	-20.915	1.00	12.42	O	
ANISOU	148	O	VAL	A	31	1866	1162	1691	-155	364	-97	O
ATOM	149	CB	VAL	A	31	31.012	10.318	-18.808	1.00	11.50	C	
ANISOU	149	CB	VAL	A	31	1425	1442	1503	-157	7	167	C

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ATOM	150	CG1 VAL A	31	31.602	9.162	-18.007	1.00	13.90		C
ANISOU	150	CG1 VAL A	31	1860	1817	1603	-106	-269	-86	C
ATOM	151	CG2 VAL A	31	31.812	11.609	-18.573	1.00	13.05		C
ANISOU	151	CG2 VAL A	31	1576	1661	1721	-56	46	318	C
ATOM	152	N THR A	32	32.926	10.492	-21.411	1.00	11.75		N
ANISOU	152	N THR A	32	1637	1063	1767	-142	295	90	N
ATOM	153	CA THR A	32	34.301	10.348	-21.809	1.00	12.81		C
ANISOU	153	CA THR A	32	1804	1594	1468	-12	493	398	C
ATOM	154	C THR A	32	35.119	11.402	-21.057	1.00	11.55		C
ANISOU	154	C THR A	32	1524	1424	1439	-187	508	302	C
ATOM	155	O THR A	32	34.747	12.554	-21.034	1.00	12.68		O
ANISOU	155	O THR A	32	1698	1420	1701	-225	66	233	O
ATOM	156	CB THR A	32	34.483	10.566	-23.312	1.00	16.61		C
ANISOU	156	CB THR A	32	2836	2027	1447	-63	623	618	C
ATOM	157	OG1 THR A	32	33.670	9.581	-23.980	1.00	20.34		O
ANISOU	157	OG1 THR A	32	3216	2911	1600	333	51	556	O
ATOM	158	CG2 THR A	32	35.929	10.371	-23.749	1.00	19.42		C
ANISOU	158	CG2 THR A	32	2783	3326	1269	98	756	-71	C
ATOM	159	N ALA A	33	36.189	10.908	-20.476	1.00	11.76		N
ANISOU	159	N ALA A	33	1560	1290	1618	-163	467	60	N
ATOM	160	CA ALA A	33	37.095	11.738	-19.749	1.00	12.30		C
ANISOU	160	CA ALA A	33	1470	1558	1647	20	536	85	C
ATOM	161	C ALA A	33	38.291	11.998	-20.645	1.00	14.21		C
ANISOU	161	C ALA A	33	1640	1692	2066	-62	815	83	C
ATOM	162	O ALA A	33	38.970	11.060	-21.066	1.00	19.14		O
ANISOU	162	O ALA A	33	1888	1922	3461	-428	1275	-61	O
ATOM	163	CB ALA A	33	37.486	11.012	-18.465	1.00	14.19		C
ANISOU	163	CB ALA A	33	2357	1503	1530	77	340	269	C
ATOM	164	N GLY A	34	38.524	13.249	-20.974	1.00	13.22		N
ANISOU	164	N GLY A	34	1390	1679	1953	335	596	342	N
ATOM	165	CA GLY A	34	39.644	13.636	-21.827	1.00	12.41		C
ANISOU	165	CA GLY A	34	1368	1734	1615	75	680	446	C
ATOM	166	C GLY A	34	40.927	13.878	-21.044	1.00	13.28		C
ANISOU	166	C GLY A	34	1384	1908	1754	294	710	413	C
ATOM	167	O GLY A	34	40.926	14.181	-19.847	1.00	13.91		O
ANISOU	167	O GLY A	34	1761	1902	1624	-115	322	67	O
ATOM	168	N ALA A	35	42.077	13.805	-21.677	1.00	14.78		N
ANISOU	168	N ALA A	35	1302	2045	2270	7	719	352	N
ATOM	169	CA ALA A	35	43.373	14.001	-21.083	1.00	15.80		C
ANISOU	169	CA ALA A	35	1410	2330	2264	63	624	181	C
ATOM	170	C ALA A	35	43.506	15.381	-20.447	1.00	14.79		C
ANISOU	170	C ALA A	35	1297	2444	1879	1	454	271	C
ATOM	171	O ALA A	35	44.309	15.450	-19.527	1.00	18.01		O
ANISOU	171	O ALA A	35	1396	3157	2290	-85	132	333	O
ATOM	172	CB ALA A	35	44.493	13.830	-22.102	1.00	21.38		C
ANISOU	172	CB ALA A	35	1376	2780	3969	-821	1156	658	C
ATOM	173	N ASP A	36	42.762	16.353	-20.958	1.00	13.87		N
ANISOU	173	N ASP A	36	1498	2384	1389	-2	523	388	N
ATOM	174	CA ASP A	36	42.810	17.715	-20.462	1.00	15.00		C
ANISOU	174	CA ASP A	36	1647	2377	1674	-40	641	374	C
ATOM	175	C ASP A	36	41.901	17.993	-19.268	1.00	13.87		C
ANISOU	175	C ASP A	36	1651	1752	1866	-251	768	120	C
ATOM	176	O ASP A	36	41.815	19.145	-18.820	1.00	16.85		O
ANISOU	176	O ASP A	36	2231	1944	2228	306	899	636	O
ATOM	177	CB ASP A	36	42.431	18.662	-21.594	1.00	15.98		C
ANISOU	177	CB ASP A	36	1819	2455	1798	-187	876	213	C

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ATOM	178	CG	ASP	A	36	41.025	18.441	-22.120	1.00	16.27		C
ANISOU	178	CG	ASP	A	36	2020	2261	1903	-241	579	-20	C
ATOM	179	OD1	ASP	A	36	40.416	17.394	-21.771	1.00	15.99		O
ANISOU	179	OD1	ASP	A	36	2122	2318	1636	-3	522	237	O
ATOM	180	OD2	ASP	A	36	40.602	19.352	-22.893	1.00	22.56		O
ANISOU	180	OD2	ASP	A	36	2192	3299	3079	-603	773	-1084	O
ATOM	181	N	GLY	A	37	41.241	16.986	-18.707	1.00	11.53		N
ANISOU	181	N	GLY	A	37	1479	1639	1262	-364	238	50	N
ATOM	182	CA	GLY	A	37	40.308	17.150	-17.602	1.00	10.76		C
ANISOU	182	CA	GLY	A	37	1259	1691	1140	-273	149	29	C
ATOM	183	C	GLY	A	37	38.871	17.337	-17.999	1.00	8.79		C
ANISOU	183	C	GLY	A	37	1283	1040	1016	-15	101	-169	C
ATOM	184	O	GLY	A	37	37.992	17.558	-17.165	1.00	10.93		O
ANISOU	184	O	GLY	A	37	1207	1852	1093	-80	130	23	O
ATOM	185	N	ALA	A	38	38.580	17.237	-19.292	1.00	10.27		N
ANISOU	185	N	ALA	A	38	1340	1460	1101	180	150	180	N
ATOM	186	CA	ALA	A	38	37.205	17.401	-19.752	1.00	9.66		C
ANISOU	186	CA	ALA	A	38	1262	1625	785	183	203	168	C
ATOM	187	C	ALA	A	38	36.356	16.179	-19.471	1.00	10.15		C
ANISOU	187	C	ALA	A	38	1186	1540	1131	43	379	-7	C
ATOM	188	O	ALA	A	38	36.860	15.043	-19.553	1.00	12.25		O
ANISOU	188	O	ALA	A	38	1117	1619	1919	-15	358	75	O
ATOM	189	CB	ALA	A	38	37.218	17.698	-21.263	1.00	12.89		C
ANISOU	189	CB	ALA	A	38	1631	2226	1040	-213	404	-438	C
ATOM	190	N	LEU	A	39	35.075	16.359	-19.164	1.00	9.52		N
ANISOU	190	N	LEU	A	39	1170	1353	1096	95	229	312	N
ATOM	191	CA	LEU	A	39	34.076	15.323	-19.173	1.00	9.95		C
ANISOU	191	CA	LEU	A	39	1228	1367	1187	164	28	-95	C
ATOM	192	C	LEU	A	39	33.037	15.721	-20.217	1.00	9.42		C
ANISOU	192	C	LEU	A	39	1089	1437	1054	-119	151	140	C
ATOM	193	O	LEU	A	39	32.602	16.866	-20.201	1.00	10.88		O
ANISOU	193	O	LEU	A	39	1569	1424	1141	-195	100	153	O
ATOM	194	CB	LEU	A	39	33.324	15.178	-17.857	1.00	10.15		C
ANISOU	194	CB	LEU	A	39	1375	1264	1216	68	52	-219	C
ATOM	195	CG	LEU	A	39	34.211	14.815	-16.655	1.00	10.20		C
ANISOU	195	CG	LEU	A	39	1522	1138	1216	78	-19	-176	C
ATOM	196	CD1	LEU	A	39	33.326	14.788	-15.428	1.00	10.79		C
ANISOU	196	CD1	LEU	A	39	1425	1590	1083	154	-123	44	C
ATOM	197	CD2	LEU	A	39	34.933	13.485	-16.870	1.00	10.81		C
ANISOU	197	CD2	LEU	A	39	1776	1205	1124	-42	-11	-237	C
ATOM	198	N	THR	A	40	32.688	14.829	-21.096	1.00	10.26		N
ANISOU	198	N	THR	A	40	1242	1475	1181	-8	95	206	N
ATOM	199	CA	THR	A	40	31.673	15.021	-22.117	1.00	9.90		C
ANISOU	199	CA	THR	A	40	1277	1302	1183	-88	90	166	C
ATOM	200	C	THR	A	40	30.822	13.772	-22.249	1.00	10.01		C
ANISOU	200	C	THR	A	40	1492	1280	1031	39	-106	-121	C
ATOM	201	O	THR	A	40	31.303	12.660	-22.154	1.00	14.65		O
ANISOU	201	O	THR	A	40	1744	1326	2496	-55	-415	-218	O
ATOM	202	CB	THR	A	40	32.288	15.312	-23.513	1.00	11.70		C
ANISOU	202	CB	THR	A	40	1580	1495	1369	9	86	-331	C
ATOM	203	OG1	ATHR	A	40	33.002	14.184	-23.994	0.50	15.92		O
ANISOU	203	OG1	ATHR	A	40	2006	2845	1199	-862	317	37	O
ATOM	204	OG1	BTHR	A	40	33.228	16.359	-23.328	0.50	17.12		O
ANISOU	204	OG1	BTHR	A	40	2567	1706	2229	614	785	261	O
ATOM	205	CG2	ATHR	A	40	33.259	16.467	-23.418	0.50	21.88		C
ANISOU	205	CG2	ATHR	A	40	2138	2913	3263	1124	370	-430	C

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ATOM	206	CG2BTHR A	40	31.249	15.760	-24.510	0.50	14.92		C
ANISOU	206	CG2BTHR A	40	1761	1940	1968	-601	401	-1396	C
ATOM	207	N GLY A	41	29.545	13.907	-22.494	1.00	10.43		N
ANISOU	207	N GLY A	41	1463	1191	1309	34	31	-16	N
ATOM	208	CA GLY A	41	28.696	12.746	-22.686	1.00	11.15		C
ANISOU	208	CA GLY A	41	1395	1187	1656	110	280	-312	C
ATOM	209	C GLY A	41	27.212	13.113	-22.683	1.00	10.10		C
ANISOU	209	C GLY A	41	1397	1280	1159	75	430	226	C
ATOM	210	O GLY A	41	26.822	14.209	-23.049	1.00	9.69		O
ANISOU	210	O GLY A	41	1252	1246	1183	57	187	256	O
ATOM	211	N THR A	42	26.428	12.113	-22.276	1.00	9.88		N
ANISOU	211	N THR A	42	1299	1477	979	71	103	-113	N
ATOM	212	CA THR A	42	24.987	12.242	-22.245	1.00	9.09		C
ANISOU	212	CA THR A	42	1300	1181	971	89	168	153	C
ATOM	213	C THR A	42	24.434	11.590	-20.986	1.00	9.21		C
ANISOU	213	C THR A	42	1204	1242	1053	184	75	30	C
ATOM	214	O THR A	42	24.989	10.651	-20.455	1.00	11.22		O
ANISOU	214	O THR A	42	1572	1589	1101	-127	130	-107	O
ATOM	215	CB THR A	42	24.269	11.617	-23.455	1.00	11.53		C
ANISOU	215	CB THR A	42	1600	1704	1075	243	-74	136	C
ATOM	216	OG1 THR A	42	24.522	10.216	-23.502	1.00	14.46		O
ANISOU	216	OG1 THR A	42	2266	1663	1564	300	-431	560	O
ATOM	217	CG2 THR A	42	24.794	12.236	-24.745	1.00	14.68		C
ANISOU	217	CG2 THR A	42	1828	2728	1023	646	-291	-85	C
ATOM	218	N TYR A	43	23.312	12.153	-20.582	1.00	9.36		N
ANISOU	218	N TYR A	43	1425	1310	822	28	119	-24	N
ATOM	219	CA TYR A	43	22.630	11.721	-19.384	1.00	9.29		C
ANISOU	219	CA TYR A	43	1323	1411	794	238	76	28	C
ATOM	220	C TYR A	43	21.178	11.419	-19.714	1.00	10.52		C
ANISOU	220	C TYR A	43	1404	1470	1122	292	-75	-188	C
ATOM	221	O TYR A	43	20.570	12.224	-20.432	1.00	11.47		O
ANISOU	221	O TYR A	43	1508	1528	1322	227	-121	-260	O
ATOM	222	CB TYR A	43	22.675	12.812	-18.306	1.00	10.18		C
ANISOU	222	CB TYR A	43	1708	1410	749	259	59	-38	C
ATOM	223	CG TYR A	43	22.446	12.309	-16.905	1.00	8.08		C
ANISOU	223	CG TYR A	43	1267	1027	777	97	111	-4	C
ATOM	224	CD1 TYR A	43	21.162	12.101	-16.421	1.00	9.23		C
ANISOU	224	CD1 TYR A	43	1307	1417	784	168	103	213	C
ATOM	225	CD2 TYR A	43	23.505	12.000	-16.074	1.00	9.89		C
ANISOU	225	CD2 TYR A	43	1380	1467	910	317	-102	-84	C
ATOM	226	CE1 TYR A	43	20.947	11.624	-15.159	1.00	9.08		C
ANISOU	226	CE1 TYR A	43	1279	1396	776	388	91	198	C
ATOM	227	CE2 TYR A	43	23.284	11.517	-14.793	1.00	9.13		C
ANISOU	227	CE2 TYR A	43	1343	1290	838	-144	58	43	C
ATOM	228	CZ TYR A	43	22.014	11.350	-14.344	1.00	8.46		C
ANISOU	228	CZ TYR A	43	1378	940	897	118	47	207	C
ATOM	229	OH TYR A	43	21.873	10.857	-13.084	1.00	9.81		O
ANISOU	229	OH TYR A	43	1304	1401	1023	224	-33	-18	O
ATOM	230	N GLU A	44	20.679	10.315	-19.176	1.00	10.43		N
ANISOU	230	N GLU A	44	1316	1338	1307	116	381	-139	N
ATOM	231	CA GLU A	44	19.249	9.989	-19.359	1.00	11.22		C
ANISOU	231	CA GLU A	44	1367	1367	1530	150	563	198	C
ATOM	232	C GLU A	44	18.670	9.755	-17.977	1.00	10.73		C
ANISOU	232	C GLU A	44	1183	1358	1536	113	445	92	C
ATOM	233	O GLU A	44	19.152	8.850	-17.289	1.00	12.51		O
ANISOU	233	O GLU A	44	1700	1407	1647	-64	402	80	O

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ATOM	234	CB	GLU	A	44	19.094	8.758	-20.230	1.00	14.05		C
ANISOU	234	CB	GLU	A	44	1917	1692	1731	111	109	473	C
ATOM	235	CG	GLU	A	44	17.649	8.414	-20.489	1.00	19.79		C
ANISOU	235	CG	GLU	A	44	2165	3335	2019	1049	435	866	C
ATOM	236	CD	GLU	A	44	17.441	7.686	-21.795	1.00	26.89		C
ANISOU	236	CD	GLU	A	44	2718	4909	2592	99	-561	1760	C
ATOM	237	OE1	GLU	A	44	16.272	7.401	-22.128	1.00	33.78		O
ANISOU	237	OE1	GLU	A	44	3353	5457	4023	1589	-436	2157	O
ATOM	238	OE2	GLU	A	44	18.408	7.373	-22.511	1.00	30.91		O
ANISOU	238	OE2	GLU	A	44	3766	4888	3093	1339	619	2513	O
ATOM	239	N	SER	A	45	17.694	10.532	-17.583	1.00	10.60		N
ANISOU	239	N	SER	A	45	1561	1305	1163	-26	363	271	N
ATOM	240	CA	SER	A	45	17.136	10.438	-16.246	1.00	9.92		C
ANISOU	240	CA	SER	A	45	1283	1442	1045	96	119	323	C
ATOM	241	C	SER	A	45	15.918	9.523	-16.249	1.00	9.78		C
ANISOU	241	C	SER	A	45	1165	1494	1057	26	9	122	C
ATOM	242	O	SER	A	45	15.051	9.668	-17.132	1.00	11.68		O
ANISOU	242	O	SER	A	45	1607	1551	1279	39	-404	107	O
ATOM	243	CB	ASER	A	45	16.725	11.797	-15.669	0.80	11.59		C
ANISOU	243	CB	ASER	A	45	1670	1528	1205	145	569	374	C
ATOM	244	CB	B	SER	A	45	16.773	11.866	-15.831	0.20	10.80	C
ATOM	245	OG	ASER	A	45	16.104	11.597	-14.386	0.80	10.11		O
ANISOU	245	OG	ASER	A	45	1541	1313	987	504	271	292	O
ATOM	246	OG	B	SER	A	45	16.486	12.029	-14.461	0.20	15.23	O
ATOM	247	N	ALA	A	46	15.900	8.657	-15.252	1.00	10.06		N
ANISOU	247	N	ALA	A	46	1206	1581	1034	107	-173	91	N
ATOM	248	CA	ALA	A	46	14.763	7.766	-15.057	1.00	11.80		C
ANISOU	248	CA	ALA	A	46	1533	1497	1453	206	129	76	C
ATOM	249	C	ALA	A	46	13.552	8.459	-14.449	1.00	11.80		C
ANISOU	249	C	ALA	A	46	1337	1727	1420	340	4	321	C
ATOM	250	O	ALA	A	46	12.455	7.912	-14.437	1.00	13.35		O
ANISOU	250	O	ALA	A	46	1440	1955	1679	500	-12	249	O
ATOM	251	CB	ALA	A	46	15.137	6.649	-14.102	1.00	15.06		C
ANISOU	251	CB	ALA	A	46	1651	1915	2156	231	37	-458	C
ATOM	252	N	VAL	A	47	13.738	9.644	-13.904	1.00	11.10		N
ANISOU	252	N	VAL	A	47	1382	1696	1141	228	-185	302	N
ATOM	253	CA	VAL	A	47	12.711	10.381	-13.183	1.00	11.44		C
ANISOU	253	CA	VAL	A	47	1476	1765	1108	136	13	80	C
ATOM	254	C	VAL	A	47	12.693	11.836	-13.610	1.00	10.92		C
ANISOU	254	C	VAL	A	47	1238	1824	1089	115	50	4	C
ATOM	255	O	VAL	A	47	13.608	12.383	-14.221	1.00	11.53		O
ANISOU	255	O	VAL	A	47	1492	1918	972	396	107	209	O
ATOM	256	CB	VAL	A	47	12.922	10.317	-11.644	1.00	10.43		C
ANISOU	256	CB	VAL	A	47	1223	1595	1145	365	12	29	C
ATOM	257	CG1	VAL	A	47	12.870	8.852	-11.197	1.00	12.88		C
ANISOU	257	CG1	VAL	A	47	1854	1553	1485	186	64	-33	C
ATOM	258	CG2	VAL	A	47	14.218	10.967	-11.219	1.00	11.33		C
ANISOU	258	CG2	VAL	A	47	1071	1625	1611	64	-15	544	C
ATOM	259	N	GLY	A	48	11.628	12.530	-13.239	1.00	12.21		N
ANISOU	259	N	GLY	A	48	1084	1838	1718	133	-96	-137	N
ATOM	260	CA	GLY	A	48	11.525	13.955	-13.448	1.00	11.41		C
ANISOU	260	CA	GLY	A	48	1383	1826	1125	84	227	-99	C
ATOM	261	C	GLY	A	48	11.036	14.324	-14.823	1.00	10.07		C
ANISOU	261	C	GLY	A	48	1115	1520	1190	25	109	205	C
ATOM	262	O	GLY	A	48	10.491	13.534	-15.579	1.00	13.35		O
ANISOU	262	O	GLY	A	48	1592	2157	1322	520	201	415	O

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ATOM	263	N	ASN A 49	11.228	15.603	-15.103	1.00	12.59	N	
ANISOU	263	N	ASN A 49	1769	1626	1387	124	66	-131	N
ATOM	264	CA	ASN A 49	10.673	16.214	-16.319	1.00	12.22	C	
ANISOU	264	CA	ASN A 49	1329	1924	1389	-76	145	-85	C
ATOM	265	C	ASN A 49	11.721	16.085	-17.415	1.00	11.49	C	
ANISOU	265	C	ASN A 49	1387	1673	1304	370	137	142	C
ATOM	266	O	ASN A 49	12.414	17.016	-17.778	1.00	14.51	O	
ANISOU	266	O	ASN A 49	1933	1976	1603	722	302	162	O
ATOM	267	CB	ASN A 49	10.310	17.657	-16.049	1.00	15.22	C	
ANISOU	267	CB	ASN A 49	1612	2150	2021	-637	-21	-92	C
ATOM	268	CG	ASN A 49	9.526	18.325	-17.147	1.00	14.78	C	
ANISOU	268	CG	ASN A 49	1780	1991	1843	-83	-185	-228	C
ATOM	269	OD1	ASN A 49	9.227	17.689	-18.144	1.00	19.58	O	
ANISOU	269	OD1	ASN A 49	1967	3373	2098	80	-204	365	O
ATOM	270	ND2	ASN A 49	9.234	19.602	-16.935	1.00	19.74	N	
ANISOU	270	ND2	ASN A 49	2950	1679	2870	18	-647	-690	N
ATOM	271	N	ALA A 50	11.845	14.861	-17.880	1.00	11.51	N	
ANISOU	271	N	ALA A 50	1303	1694	1376	106	-7	126	N
ATOM	272	CA	ALA A 50	12.966	14.479	-18.706	1.00	11.87	C	
ANISOU	272	CA	ALA A 50	1343	1870	1296	192	58	157	C
ATOM	273	C	ALA A 50	12.577	13.300	-19.561	1.00	13.18	C	
ANISOU	273	C	ALA A 50	1425	2070	1512	443	363	359	C
ATOM	274	O	ALA A 50	11.874	12.398	-19.112	1.00	14.18	O	
ANISOU	274	O	ALA A 50	1634	2110	1645	531	17	106	O
ATOM	275	CB	ALA A 50	14.146	14.126	-17.787	1.00	15.49	C	
ANISOU	275	CB	ALA A 50	1166	2846	1873	178	-91	58	C
ATOM	276	N	GLU A 51	13.058	13.279	-20.795	1.00	12.62	N	
ANISOU	276	N	GLU A 51	1673	2119	1005	145	-273	81	N
ATOM	277	CA	GLU A 51	12.949	12.096	-21.656	1.00	13.25	C	
ANISOU	277	CA	GLU A 51	1205	2421	1408	-64	-413	488	C
ATOM	278	C	GLU A 51	14.172	12.100	-22.585	1.00	13.32	C	
ANISOU	278	C	GLU A 51	1203	2255	1601	181	-364	548	C
ATOM	279	O	GLU A 51	14.676	13.160	-22.956	1.00	15.02	O	
ANISOU	279	O	GLU A 51	1817	2272	1617	431	-127	781	O
ATOM	280	CB	GLU A 51	11.665	12.090	-22.454	1.00	15.49	C	
ANISOU	280	CB	GLU A 51	1191	3053	1641	254	-505	174	C
ATOM	281	CG	GLU A 51	11.569	13.125	-23.568	1.00	23.57	C	
ANISOU	281	CG	GLU A 51	2061	4280	2614	-334	-755	-838	C
ATOM	282	CD	GLU A 51	10.206	13.204	-24.216	1.00	24.52	C	
ANISOU	282	CD	GLU A 51	2660	4439	2217	-1397	-1232	751	C
ATOM	283	OE1	GLU A 51	9.995	12.606	-25.292	1.00	26.32	O	
ANISOU	283	OE1	GLU A 51	3156	4759	2084	282	-250	827	O
ATOM	284	OE2	GLU A 51	9.303	13.869	-23.671	1.00	32.33	O	
ANISOU	284	OE2	GLU A 51	2730	5428	4125	-1583	-1468	2244	O
ATOM	285	N	ASER A 52	14.623	10.920	-22.982	0.50	15.16	N	
ANISOU	285	N	ASER A 52	1630	2242	1890	434	269	714	N
ATOM	286	N	BSER A 52	14.629	10.916	-22.942	0.50	14.01	N	
ATOM	287	CA	ASER A 52	15.723	10.773	-23.921	0.50	15.32	C	
ANISOU	287	CA	ASER A 52	1754	2223	1844	802	377	870	C
ATOM	288	CA	BSER A 52	15.751	10.721	-23.835	0.50	14.35	C	
ATOM	289	C	ASER A 52	17.035	11.133	-23.221	0.50	13.81	C	
ANISOU	289	C	ASER A 52	1624	2053	1569	220	268	888	C
ATOM	290	C	BSER A 52	17.012	11.305	-23.200	0.50	14.52	C	
ATOM	291	O	ASER A 52	17.117	11.088	-21.991	0.50	17.16	O	
ANISOU	291	O	ASER A 52	1971	3033	1518	-113	336	853	O
ATOM	292	O	BSER A 52	17.039	11.568	-21.999	0.50	12.89	O	

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ATOM	293	CB	ASER	A	52	15.490	11.638	-25.157	0.50	16.40		C
ANISOU	293	CB	ASER	A	52	1592	3102	1537	-102	324	968	C
ATOM	294	CB	BSER	A	52	15.476	11.341	-25.200	0.50	18.41		C
ATOM	295	OG	ASER	A	52	16.332	11.276	-26.241	0.50	17.85		O
ANISOU	295	OG	ASER	A	52	893	4382	1507	116	140	1147	O
ATOM	296	OG	BSER	A	52	16.285	10.731	-26.189	0.50	23.14		O
ATOM	297	N	ARG	A	53	18.023	11.460	-24.033	1.00	11.96		N
ANISOU	297	N	ARG	A	53	1518	1606	1419	343	-142	360	N
ATOM	298	CA	ARG	A	53	19.351	11.868	-23.635	1.00	11.61		C
ANISOU	298	CA	ARG	A	53	1490	1491	1432	171	-340	281	C
ATOM	299	C	ARG	A	53	19.556	13.375	-23.644	1.00	9.71		C
ANISOU	299	C	ARG	A	53	1190	1431	1067	121	30	258	C
ATOM	300	O	ARG	A	53	19.043	14.079	-24.530	1.00	12.28		O
ANISOU	300	O	ARG	A	53	1692	1680	1295	-20	-194	146	O
ATOM	301	CB	ARG	A	53	20.413	11.283	-24.597	1.00	16.73		C
ANISOU	301	CB	ARG	A	53	1411	2221	2726	-473	-583	1266	C
ATOM	302	CG	ARG	A	53	20.503	9.786	-24.453	1.00	18.74		C
ANISOU	302	CG	ARG	A	53	2132	2378	2611	-621	-223	707	C
ATOM	303	CD	ARG	A	53	21.535	9.222	-25.411	1.00	24.90		C
ANISOU	303	CD	ARG	A	53	3720	3270	2472	-1940	-286	1196	C
ATOM	304	NE	ARG	A	53	21.584	7.773	-25.222	1.00	33.47		N
ANISOU	304	NE	ARG	A	53	6646	3496	2575	-2771	445	437	N
ATOM	305	CZ	ARG	A	53	22.384	6.925	-25.845	1.00	43.32		C
ANISOU	305	CZ	ARG	A	53	8851	3669	3941	-3577	1633	197	C
ATOM	306	NH1	ARG	A	53	22.341	5.619	-25.592	1.00	53.64		N
ANISOU	306	NH1	ARG	A	53	12829	3500	4051	-4244	-1216	372	N
ATOM	307	NH2	ARG	A	53	23.271	7.332	-26.757	1.00	65.43		N
ANISOU	307	NH2	ARG	A	53	10607	7737	6518	-3393	4344	576	N
ATOM	308	N	TYR	A	54	20.331	13.856	-22.686	1.00	9.97		N
ANISOU	308	N	TYR	A	54	1411	1437	940	454	45	10	N
ATOM	309	CA	TYR	A	54	20.721	15.253	-22.572	1.00	8.40		C
ANISOU	309	CA	TYR	A	54	1193	1316	682	226	15	-119	C
ATOM	310	C	TYR	A	54	22.238	15.406	-22.588	1.00	9.15		C
ANISOU	310	C	TYR	A	54	1190	1103	1184	174	-36	-9	C
ATOM	311	O	TYR	A	54	22.927	14.521	-22.071	1.00	11.03		O
ANISOU	311	O	TYR	A	54	1238	1319	1636	29	58	-246	O
ATOM	312	CB	TYR	A	54	20.194	15.884	-21.276	1.00	8.78		C
ANISOU	312	CB	TYR	A	54	1298	1537	502	105	-141	-98	C
ATOM	313	CG	TYR	A	54	18.687	15.881	-21.237	1.00	8.93		C
ANISOU	313	CG	TYR	A	54	1301	1485	605	35	-112	169	C
ATOM	314	CD1	TYR	A	54	17.957	14.758	-20.929	1.00	10.01		C
ANISOU	314	CD1	TYR	A	54	1276	1682	845	134	-141	20	C
ATOM	315	CD2	TYR	A	54	17.957	17.035	-21.523	1.00	9.94		C
ANISOU	315	CD2	TYR	A	54	1351	1600	827	-86	3	150	C
ATOM	316	CE1	TYR	A	54	16.570	14.740	-20.889	1.00	10.03		C
ANISOU	316	CE1	TYR	A	54	1287	1719	806	77	-81	204	C
ATOM	317	CE2	TYR	A	54	16.557	17.039	-21.490	1.00	10.31		C
ANISOU	317	CE2	TYR	A	54	1320	1714	884	-59	-99	174	C
ATOM	318	CZ	TYR	A	54	15.869	15.892	-21.171	1.00	10.69		C
ANISOU	318	CZ	TYR	A	54	1310	1771	980	-44	67	276	C
ATOM	319	OH	TYR	A	54	14.504	15.886	-21.148	1.00	11.54		O
ANISOU	319	OH	TYR	A	54	1268	2237	878	31	-120	16	O
ATOM	320	N	VAL	A	55	22.706	16.498	-23.170	1.00	9.59		N
ANISOU	320	N	VAL	A	55	1211	1237	1196	214	185	-58	N
ATOM	321	CA	VAL	A	55	24.151	16.737	-23.142	1.00	8.80		C
ANISOU	321	CA	VAL	A	55	1200	1056	1088	154	125	163	C

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ATOM	322	C	VAL A	55	24.595	16.970	-21.722	1.00	9.28	C	
ANISOU	322	C	VAL A	55	1260	1325	942	-7	239	68	C
ATOM	323	O	VAL A	55	23.959	17.670	-20.957	1.00	10.63	O	
ANISOU	323	O	VAL A	55	1255	1854	928	-179	149	98	O
ATOM	324	CB	VAL A	55	24.454	17.970	-23.996	1.00	10.19	C	
ANISOU	324	CB	VAL A	55	1362	1481	1030	364	212	-35	C
ATOM	325	CG1	VAL A	55	25.907	18.432	-23.853	1.00	11.79	C	
ANISOU	325	CG1	VAL A	55	1253	1612	1614	286	371	-72	C
ATOM	326	CG2	VAL A	55	24.121	17.698	-25.444	1.00	12.04	C	
ANISOU	326	CG2	VAL A	55	1753	1799	1020	208	378	61	C
ATOM	327	N	LEU A	56	25.756	16.414	-21.409	1.00	9.89	N	
ANISOU	327	N	LEU A	56	1367	1260	1130	-4	11	392	N
ATOM	328	CA	LEU A	56	26.457	16.856	-20.233	1.00	12.25	C	
ANISOU	328	CA	LEU A	56	1492	2176	985	338	31	246	C
ATOM	329	C	LEU A	56	27.888	17.293	-20.554	1.00	11.02	C	
ANISOU	329	C	LEU A	56	1466	1709	1012	219	67	257	C
ATOM	330	O	LEU A	56	28.524	16.779	-21.446	1.00	12.49	O	
ANISOU	330	O	LEU A	56	1502	2158	1084	14	-15	578	O
ATOM	331	CB	LEU A	56	26.517	15.753	-19.213	1.00	11.60	C	
ANISOU	331	CB	LEU A	56	1076	2069	1263	303	38	105	C
ATOM	332	CG	LEU A	56	27.398	14.547	-19.412	1.00	12.82	C	
ANISOU	332	CG	LEU A	56	1297	2359	1217	30	118	431	C
ATOM	333	CD1	LEU A	56	28.807	14.701	-18.778	1.00	11.81	C	
ANISOU	333	CD1	LEU A	56	1556	1465	1466	12	-273	459	C
ATOM	334	CD2	LEU A	56	26.779	13.281	-18.799	1.00	18.27	C	
ANISOU	334	CD2	LEU A	56	1806	1699	3438	306	364	837	C
ATOM	335	N	THR A	57	28.332	18.210	-19.683	1.00	10.10	N	
ANISOU	335	N	THR A	57	1184	1624	1029	-191	-174	323	N
ATOM	336	CA	THR A	57	29.730	18.592	-19.735	1.00	9.86	C	
ANISOU	336	CA	THR A	57	1383	1364	999	-34	-108	216	C
ATOM	337	C	THR A	57	30.215	18.812	-18.320	1.00	8.07	C	
ANISOU	337	C	THR A	57	1024	1136	907	143	89	75	C
ATOM	338	O	THR A	57	29.449	19.187	-17.438	1.00	9.71	O	
ANISOU	338	O	THR A	57	1160	1545	984	150	184	208	O
ATOM	339	CB	THR A	57	29.936	19.833	-20.587	1.00	12.85	C	
ANISOU	339	CB	THR A	57	2158	1695	1031	252	-397	-83	C
ATOM	340	OG1	THR A	57	31.339	20.065	-20.731	1.00	16.31	O	
ANISOU	340	OG1	THR A	57	2374	2093	1731	724	-25	91	O
ATOM	341	CG2	THR A	57	29.374	21.083	-19.957	1.00	12.89	C	
ANISOU	341	CG2	THR A	57	2579	1320	999	540	-202	-211	C
ATOM	342	N	GLY A	58	31.503	18.571	-18.109	1.00	9.84	N	
ANISOU	342	N	GLY A	58	1098	1486	1153	-2	-9	175	N
ATOM	343	CA	GLY A	58	32.068	18.776	-16.774	1.00	9.66	C	
ANISOU	343	CA	GLY A	58	1079	1437	1154	-24	-59	166	C
ATOM	344	C	GLY A	58	33.580	18.743	-16.830	1.00	10.31	C	
ANISOU	344	C	GLY A	58	1116	1609	1192	-370	-69	-225	C
ATOM	345	O	GLY A	58	34.214	18.824	-17.896	1.00	9.77	O	
ANISOU	345	O	GLY A	58	1111	1309	1291	36	45	-11	O
ATOM	346	N	ARG A	59	34.160	18.575	-15.635	1.00	9.37	N	
ANISOU	346	N	ARG A	59	1072	1277	1210	-310	-78	-33	N
ATOM	347	CA	ARG A	59	35.584	18.568	-15.436	1.00	7.97	C	
ANISOU	347	CA	ARG A	59	992	1310	725	-149	170	50	C
ATOM	348	C	ARG A	59	35.902	17.561	-14.324	1.00	8.44	C	
ANISOU	348	C	ARG A	59	649	1787	773	146	-65	-211	C
ATOM	349	O	ARG A	59	35.094	17.298	-13.417	1.00	10.76	O	
ANISOU	349	O	ARG A	59	1262	1847	978	65	353	-254	O

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ATOM	350	CB	ARG	A	59	36.113	19.930	-15.034	1.00	10.21		C
ANISOU	350	CB	ARG	A	59	1411	1402	1068	-114	46	261	C
ATOM	351	CG	ARG	A	59	35.744	21.082	-15.977	1.00	9.95		C
ANISOU	351	CG	ARG	A	59	1043	1186	1549	-182	-35	258	C
ATOM	352	CD	ARG	A	59	36.612	21.041	-17.260	1.00	9.87		C
ANISOU	352	CD	ARG	A	59	1248	1034	1469	-52	-24	-74	C
ATOM	353	NE	ARG	A	59	38.015	21.224	-16.915	1.00	9.73		N
ANISOU	353	NE	ARG	A	59	1177	1527	993	-242	24	-113	N
ATOM	354	CZ	ARG	A	59	39.037	21.015	-17.717	1.00	10.82		C
ANISOU	354	CZ	ARG	A	59	1385	1374	1352	23	284	339	C
ATOM	355	NH1	ARG	A	59	38.776	20.615	-18.946	1.00	12.93		N
ANISOU	355	NH1	ARG	A	59	1750	2025	1137	-54	261	194	N
ATOM	356	NH2	ARG	A	59	40.281	21.198	-17.309	1.00	12.61		N
ANISOU	356	NH2	ARG	A	59	1280	1979	1530	113	386	256	N
ATOM	357	N	TYR	A	60	37.124	17.047	-14.409	1.00	9.69		N
ANISOU	357	N	TYR	A	60	854	1640	1186	-6	6	-205	N
ATOM	358	CA	TYR	A	60	37.660	16.161	-13.389	1.00	10.00		C
ANISOU	358	CA	TYR	A	60	963	1738	1099	-213	149	-233	C
ATOM	359	C	TYR	A	60	39.136	16.475	-13.162	1.00	10.97		C
ANISOU	359	C	TYR	A	60	892	1613	1664	-404	95	-426	C
ATOM	360	O	TYR	A	60	39.816	17.042	-14.033	1.00	11.51		O
ANISOU	360	O	TYR	A	60	1083	1720	1570	-77	222	-97	O
ATOM	361	CB	TYR	A	60	37.423	14.670	-13.724	1.00	10.71		C
ANISOU	361	CB	TYR	A	60	1242	1726	1102	-238	129	-306	C
ATOM	362	CG	TYR	A	60	38.371	14.148	-14.786	1.00	10.47		C
ANISOU	362	CG	TYR	A	60	1188	1637	1154	-67	89	-141	C
ATOM	363	CD1	TYR	A	60	38.200	14.461	-16.127	1.00	10.59		C
ANISOU	363	CD1	TYR	A	60	1374	1627	1023	34	10	185	C
ATOM	364	CD2	TYR	A	60	39.449	13.349	-14.464	1.00	10.64		C
ANISOU	364	CD2	TYR	A	60	1432	1257	1352	-106	145	-21	C
ATOM	365	CE1	TYR	A	60	39.057	13.998	-17.086	1.00	13.19		C
ANISOU	365	CE1	TYR	A	60	1433	2303	1274	-169	174	300	C
ATOM	366	CE2	TYR	A	60	40.291	12.891	-15.406	1.00	13.32		C
ANISOU	366	CE2	TYR	A	60	2050	1345	1665	-443	490	-96	C
ATOM	367	CZ	TYR	A	60	40.114	13.196	-16.723	1.00	13.10		C
ANISOU	367	CZ	TYR	A	60	1464	1973	1539	-52	385	-17	C
ATOM	368	OH	TYR	A	60	41.030	12.687	-17.642	1.00	14.96		O
ANISOU	368	OH	TYR	A	60	1849	2093	1741	-356	607	-118	O
ATOM	369	N	ASP	A	61	39.641	16.128	-11.979	1.00	11.01		N
ANISOU	369	N	ASP	A	61	971	1798	1413	-183	1	-25	N
ATOM	370	CA	ASP	A	61	41.061	16.198	-11.678	1.00	11.13		C
ANISOU	370	CA	ASP	A	61	1002	1959	1268	-72	4	280	C
ATOM	371	C	ASP	A	61	41.809	15.133	-12.453	1.00	11.39		C
ANISOU	371	C	ASP	A	61	1160	1979	1190	-321	260	-151	C
ATOM	372	O	ASP	A	61	41.746	13.951	-12.186	1.00	11.80		O
ANISOU	372	O	ASP	A	61	1410	1926	1148	-458	19	-294	O
ATOM	373	CB	ASP	A	61	41.257	15.963	-10.192	1.00	11.57		C
ANISOU	373	CB	ASP	A	61	1081	2024	1292	-134	33	198	C
ATOM	374	CG	ASP	A	61	42.718	15.987	-9.780	1.00	12.25		C
ANISOU	374	CG	ASP	A	61	1139	2030	1486	355	-94	-717	C
ATOM	375	OD1	ASP	A	61	43.618	16.256	-10.594	1.00	12.48		O
ANISOU	375	OD1	ASP	A	61	1321	1853	1570	556	200	52	O
ATOM	376	OD2	ASP	A	61	42.909	15.738	-8.573	1.00	13.39		O
ANISOU	376	OD2	ASP	A	61	1470	2237	1381	-302	-103	-334	O
ATOM	377	N	SER	A	62	42.538	15.553	-13.469	1.00	12.07		N
ANISOU	377	N	SER	A	62	1386	2002	1200	76	312	128	N

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ATOM	378	CA	SER A	62	43.294	14.690	-14.369	1.00	12.17		C
ANISOU	378	CA	SER A	62	1270	2121	1233	-13	362	67	C
ATOM	379	C	SER A	62	44.671	14.300	-13.863	1.00	14.65		C
ANISOU	379	C	SER A	62	1121	2528	1916	126	226	510	C
ATOM	380	O	SER A	62	45.337	13.569	-14.575	1.00	18.19		O
ANISOU	380	O	SER A	62	1620	3176	2116	-675	223	415	O
ATOM	381	CB	SER A	62	43.463	15.344	-15.739	1.00	14.85		C
ANISOU	381	CB	SER A	62	1900	2431	1310	619	652	17	C
ATOM	382	OG	SER A	62	44.032	16.632	-15.703	1.00	20.64		O
ANISOU	382	OG	SER A	62	3202	2220	2419	717	718	-43	O
ATOM	383	N	ALA A	63	45.060	14.755	-12.670	1.00	14.83		N
ANISOU	383	N	ALA A	63	1489	2094	2054	180	-176	232	N
ATOM	384	CA	ALA A	63	46.270	14.260	-12.026	1.00	16.05		C
ANISOU	384	CA	ALA A	63	1387	2623	2089	-176	27	407	C
ATOM	385	C	ALA A	63	45.978	14.045	-10.546	1.00	16.86		C
ANISOU	385	C	ALA A	63	1616	2747	2044	213	-287	242	C
ATOM	386	O	ALA A	63	46.551	14.758	-9.737	1.00	17.24		O
ANISOU	386	O	ALA A	63	2080	2329	2139	-2	-468	222	O
ATOM	387	CB	ALA A	63	47.431	15.214	-12.184	1.00	19.94		C
ANISOU	387	CB	ALA A	63	1261	3463	2850	49	153	56	C
ATOM	388	N	PRO A	64	45.111	13.127	-10.183	1.00	17.05		N
ANISOU	388	N	PRO A	64	1619	2233	2628	-94	403	502	N
ATOM	389	CA	PRO A	64	44.687	13.050	-8.788	1.00	17.85		C
ANISOU	389	CA	PRO A	64	2057	2271	2452	-95	156	184	C
ATOM	390	C	PRO A	64	45.783	12.543	-7.897	1.00	23.53		C
ANISOU	390	C	PRO A	64	3060	2590	3290	-874	-344	89	C
ATOM	391	O	PRO A	64	46.827	12.064	-8.308	1.00	25.82		O
ANISOU	391	O	PRO A	64	2693	2530	4588	-703	147	-1074	O
ATOM	392	CB	PRO A	64	43.560	12.005	-8.786	1.00	19.74		C
ANISOU	392	CB	PRO A	64	3287	1852	2363	379	348	34	C
ATOM	393	CG	PRO A	64	43.961	11.129	-9.937	1.00	20.35		C
ANISOU	393	CG	PRO A	64	2717	2248	2768	182	457	265	C
ATOM	394	CD	PRO A	64	44.467	12.086	-10.995	1.00	18.70		C
ANISOU	394	CD	PRO A	64	1969	2604	2530	366	329	358	C
ATOM	395	N	ALA A	65	45.488	12.666	-6.603	1.00	28.90		N
ANISOU	395	N	ALA A	65	3997	3974	3009	-878	-759	-44	N
ATOM	396	CA	ALA A	65	46.431	12.038	-5.692	1.00	30.59		C
ANISOU	396	CA	ALA A	65	4410	3966	3247	-1886	-1360	1411	C
ATOM	397	C	ALA A	65	46.329	10.515	-5.809	1.00	28.46		C
ANISOU	397	C	ALA A	65	3789	3898	3127	-900	-1088	281	C
ATOM	398	O	ALA A	65	45.291	9.935	-6.178	1.00	35.75		O
ANISOU	398	O	ALA A	65	4128	5513	3944	-729	-1315	1857	O
ATOM	399	CB	ALA A	65	46.177	12.519	-4.271	1.00	33.98		C
ANISOU	399	CB	ALA A	65	4248	5609	3053	-1895	-1011	1240	C
ATOM	400	N	THR A	66	47.447	9.885	-5.499	1.00	28.38		N
ANISOU	400	N	THR A	66	4234	3500	3051	-1105	-1328	369	N
ATOM	401	CA	THR A	66	47.612	8.450	-5.604	1.00	26.08		C
ANISOU	401	CA	THR A	66	3075	3291	3544	-200	-1049	80	C
ATOM	402	C	THR A	66	47.686	7.755	-4.253	1.00	26.90		C
ANISOU	402	C	THR A	66	2960	3708	3554	-744	-1054	-25	C
ATOM	403	O	THR A	66	48.275	6.663	-4.219	1.00	34.53		O
ANISOU	403	O	THR A	66	5118	4466	3535	-2011	-1146	48	O
ATOM	404	CB	THR A	66	48.932	8.096	-6.331	1.00	34.16		C
ANISOU	404	CB	THR A	66	4801	4060	4119	-604	268	1135	C
ATOM	405	OG1	THR A	66	49.943	9.026	-5.892	1.00	37.28		O
ANISOU	405	OG1	THR A	66	3813	6165	4186	575	1295	654	O

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ATOM	406	CG2 THR A 66	48.712	8.167	-7.837	1.00	48.59		C
ANISOU	406	CG2 THR A 66	8054	6429	3980	9	368	1412	C
ATOM	407	N AASP A 67	47.136	8.393	-3.245	0.50	23.64		N
ANISOU	407	N AASP A 67	2356	3285	3343	-203	-1664	386	N
ATOM	408	CA AASP A 67	47.304	7.956	-1.880	0.50	21.02		C
ANISOU	408	CA AASP A 67	2345	2057	3585	-1031	-1033	75	C
ATOM	409	C AASP A 67	46.062	7.337	-1.261	0.50	25.31		C
ANISOU	409	C AASP A 67	2222	3192	4204	-874	-764	231	C
ATOM	410	O AASP A 67	45.957	7.288	-0.031	0.50	25.79		O
ANISOU	410	O AASP A 67	2024	3550	4224	-166	-51	1753	O
ATOM	411	CB AASP A 67	47.719	9.200	-1.073	0.50	21.81		C
ANISOU	411	CB AASP A 67	2366	2632	3290	-1255	-1904	272	C
ATOM	412	CG AASP A 67	46.591	10.225	-1.172	0.50	21.88		C
ANISOU	412	CG AASP A 67	2207	2503	3602	-1194	-1712	755	C
ATOM	413	OD1AASP A 67	45.605	9.987	-1.900	0.50	21.05		O
ANISOU	413	OD1AASP A 67	1445	2014	4540	-358	-1516	-353	O
ATOM	414	OD2AASP A 67	46.701	11.281	-0.520	0.50	31.37		O
ANISOU	414	OD2AASP A 67	2216	3667	6036	-1063	-1061	2446	O
ATOM	415	N GLY A 68	45.137	6.860	-2.077	1.00	27.55		N
ANISOU	415	N GLY A 68	2301	4204	3963	-501	-676	130	N
ATOM	416	CA GLY A 68	43.907	6.165	-1.666	1.00	21.95		C
ANISOU	416	CA GLY A 68	2772	2069	3497	-662	-765	30	C
ATOM	417	C GLY A 68	42.693	7.058	-1.808	1.00	21.19		C
ANISOU	417	C GLY A 68	2592	2230	3229	-735	470	-310	C
ATOM	418	O GLY A 68	41.553	6.751	-1.535	1.00	31.43		O
ANISOU	418	O GLY A 68	2852	2644	6447	-567	1083	-1021	O
ATOM	419	N SER A 69	42.927	8.283	-2.266	1.00	19.97		N
ANISOU	419	N SER A 69	1989	2907	2691	-856	-69	-1182	N
ATOM	420	CA SER A 69	41.867	9.235	-2.407	1.00	16.82		C
ANISOU	420	CA SER A 69	1966	2641	1783	-790	-446	-275	C
ATOM	421	C SER A 69	41.100	9.070	-3.724	1.00	18.54		C
ANISOU	421	C SER A 69	2039	3288	1718	-969	-285	95	C
ATOM	422	O SER A 69	41.621	8.628	-4.739	1.00	17.26		O
ANISOU	422	O SER A 69	2533	2199	1826	-1099	-189	-14	O
ATOM	423	CB SER A 69	42.447	10.673	-2.389	1.00	20.76		C
ANISOU	423	CB SER A 69	2673	2673	2543	-568	-642	-391	C
ATOM	424	OG SER A 69	43.358	10.792	-1.314	1.00	38.98		O
ANISOU	424	OG SER A 69	5593	5200	4019	2200	-2465	-1225	O
ATOM	425	N GLY A 70	39.833	9.470	-3.695	1.00	15.63		N
ANISOU	425	N GLY A 70	1571	2922	1445	-283	-117	-419	N
ATOM	426	CA GLY A 70	39.034	9.580	-4.878	1.00	13.27		C
ANISOU	426	CA GLY A 70	1782	1963	1297	-192	-101	-214	C
ATOM	427	C GLY A 70	39.530	10.693	-5.782	1.00	10.79		C
ANISOU	427	C GLY A 70	1172	1688	1239	-334	-63	58	C
ATOM	428	O GLY A 70	40.336	11.529	-5.427	1.00	13.05		O
ANISOU	428	O GLY A 70	1602	1795	1563	-166	-258	71	O
ATOM	429	N THR A 71	39.002	10.677	-6.992	1.00	11.87		N
ANISOU	429	N THR A 71	1699	1587	1224	-325	-215	-52	N
ATOM	430	CA THR A 71	39.271	11.700	-7.974	1.00	11.21		C
ANISOU	430	CA THR A 71	1764	1102	1393	-367	-215	79	C
ATOM	431	C THR A 71	38.097	12.650	-8.084	1.00	10.38		C
ANISOU	431	C THR A 71	1526	1259	1158	-336	13	226	C
ATOM	432	O THR A 71	36.981	12.235	-8.432	1.00	10.96		O
ANISOU	432	O THR A 71	1505	1612	1048	-81	66	-85	O
ATOM	433	CB THR A 71	39.422	11.028	-9.356	1.00	11.82		C
ANISOU	433	CB THR A 71	1783	1205	1504	-317	543	67	C

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ATOM	434	OG1 THR A 71	40.571	10.182	-9.319	1.00	13.04	O
ANISOU	434	OG1 THR A 71	1618	1803	1534	-456	194 -64	O
ATOM	435	CG2 THR A 71	39.639	12.048	-10.458	1.00	13.23	C
ANISOU	435	CG2 THR A 71	1557	1816	1655	-195	343 -326	C
ATOM	436	N ALA A 72	38.332	13.903	-7.751	1.00	9.53	N
ANISOU	436	N ALA A 72	1384	1174	1064	-416	197 79	N
ATOM	437	CA ALA A 72	37.259	14.900	-7.746	1.00	10.05	C
ANISOU	437	CA ALA A 72	1287	1430	1102	-530	-69 63	C
ATOM	438	C ALA A 72	36.736	15.201	-9.136	1.00	9.66	C
ANISOU	438	C ALA A 72	906	1765	999	15	22 -86	C
ATOM	439	O ALA A 72	37.546	15.290	-10.055	1.00	10.92	O
ANISOU	439	O ALA A 72	1076	1741	1331	-286	276 -232	O
ATOM	440	CB ALA A 72	37.787	16.179	-7.087	1.00	10.54	C
ANISOU	440	CB ALA A 72	1693	1336	977	-739	-109 224	C
ATOM	441	N LEU A 73	35.421	15.370	-9.278	1.00	10.66	N
ANISOU	441	N LEU A 73	890	2261	901	140	82 -453	N
ATOM	442	CA LEU A 73	34.867	15.691	-10.578	1.00	9.27	C
ANISOU	442	CA LEU A 73	1053	1513	957	117	-33 -358	C
ATOM	443	C LEU A 73	33.519	16.375	-10.388	1.00	9.64	C
ANISOU	443	C LEU A 73	1170	1662	830	-21	-39 -186	C
ATOM	444	O LEU A 73	32.943	16.343	-9.283	1.00	11.25	O
ANISOU	444	O LEU A 73	1437	1854	982	-185	187 -426	O
ATOM	445	CB LEU A 73	34.665	14.442	-11.425	1.00	10.00	C
ANISOU	445	CB LEU A 73	1165	1471	1164	63	161 -274	C
ATOM	446	CG ALEU A 73	33.526	13.470	-11.229	0.50	11.53	C
ANISOU	446	CG ALEU A 73	1395	1793	1194	355	404 175	C
ATOM	447	CG BLEU A 73	34.100	13.261	-10.600	0.50	11.79	C
ANISOU	447	CG BLEU A 73	1055	1565	1858	208	949 -63	C
ATOM	448	CD1ALEU A 73	33.595	12.358	-12.279	0.50	12.81	C
ANISOU	448	CD1ALEU A 73	1981	1143	1744	36	663 73	C
ATOM	449	CD1BLEU A 73	32.598	13.250	-10.365	0.50	17.76	C
ANISOU	449	CD1BLEU A 73	945	3605	2198	904	620 873	C
ATOM	450	CD2ALEU A 73	33.619	12.921	-9.815	0.50	11.39	C
ANISOU	450	CD2ALEU A 73	304	2545	1479	584	246 -344	C
ATOM	451	CD2BLEU A 73	34.471	11.960	-11.311	0.50	16.72	C
ANISOU	451	CD2BLEU A 73	2522	1349	2482	-351	146 -19	C
ATOM	452	N GLY A 74	32.982	16.913	-11.463	1.00	8.87	N
ANISOU	452	N GLY A 74	1014	1559	795	45	-6 -94	N
ATOM	453	CA GLY A 74	31.611	17.417	-11.458	1.00	8.67	C
ANISOU	453	CA GLY A 74	1035	1344	914	26	-91 -26	C
ATOM	454	C GLY A 74	31.091	17.524	-12.873	1.00	7.98	C
ANISOU	454	C GLY A 74	916	1300	816	-85	21 185	C
ATOM	455	O GLY A 74	31.898	17.565	-13.794	1.00	8.60	O
ANISOU	455	O GLY A 74	945	1399	922	10	74 27	O
ATOM	456	N TRP A 75	29.804	17.574	-13.038	1.00	7.21	N
ANISOU	456	N TRP A 75	875	1007	857	7	-9 -110	N
ATOM	457	CA TRP A 75	29.262	17.825	-14.390	1.00	7.72	C
ANISOU	457	CA TRP A 75	994	1052	888	127	-70 29	C
ATOM	458	C TRP A 75	27.886	18.443	-14.246	1.00	7.51	C
ANISOU	458	C TRP A 75	936	1225	693	85	-165 -10	C
ATOM	459	O TRP A 75	27.271	18.453	-13.176	1.00	9.16	O
ANISOU	459	O TRP A 75	1212	1461	806	-19	52 -69	O
ATOM	460	CB TRP A 75	29.205	16.563	-15.248	1.00	9.09	C
ANISOU	460	CB TRP A 75	1103	1240	1109	104	4 206	C
ATOM	461	CG TRP A 75	28.230	15.531	-14.789	1.00	8.50	C
ANISOU	461	CG TRP A 75	1064	900	1266	-97	81 260	C

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ATOM	462	CD1 TRP A 75	26.936	15.396	-15.174	1.00	9.58	C
ANISOU	462	CD1 TRP A 75	967	1531	1141	5	273 -85	C
ATOM	463	CD2 TRP A 75	28.462	14.472	-13.856	1.00	8.66	C
ANISOU	463	CD2 TRP A 75	1171	1348	771	-41	228 188	C
ATOM	464	NE1 TRP A 75	26.350	14.344	-14.567	1.00	10.47	N
ANISOU	464	NE1 TRP A 75	1106	1566	1305	76	268 -77	N
ATOM	465	CE2 TRP A 75	27.264	13.734	-13.724	1.00	8.83	C
ANISOU	465	CE2 TRP A 75	1159	1402	793	-60	374 141	C
ATOM	466	CE3 TRP A 75	29.573	14.073	-13.125	1.00	9.06	C
ANISOU	466	CE3 TRP A 75	1406	1147	890	25	-58 304	C
ATOM	467	CZ2 TRP A 75	27.148	12.630	-12.888	1.00	10.39	C
ANISOU	467	CZ2 TRP A 75	1739	1272	939	60	390 184	C
ATOM	468	CZ3 TRP A 75	29.453	12.973	-12.285	1.00	11.48	C
ANISOU	468	CZ3 TRP A 75	1844	1193	1325	-247	28 108	C
ATOM	469	CH2 TRP A 75	28.260	12.264	-12.168	1.00	12.07	C
ANISOU	469	CH2 TRP A 75	2151	1533	902	79	194 -178	C
ATOM	470	N THR A 76	27.432	19.018	-15.342	1.00	7.99	N
ANISOU	470	N THR A 76	1194	1148	693	-18	-113 17	N
ATOM	471	CA THR A 76	26.149	19.663	-15.452	1.00	7.69	C
ANISOU	471	CA THR A 76	1038	1287	598	-39	-66 -69	C
ATOM	472	C THR A 76	25.334	19.096	-16.609	1.00	7.65	C
ANISOU	472	C THR A 76	1071	1242	595	-2	23 14	C
ATOM	473	O THR A 76	25.887	18.782	-17.661	1.00	8.77	O
ANISOU	473	O THR A 76	981	1632	718	159	95 112	O
ATOM	474	CB THR A 76	26.342	21.175	-15.766	1.00	8.60	C
ANISOU	474	CB THR A 76	1134	1209	923	-91	-170 36	C
ATOM	475	OG1 THR A 76	27.150	21.823	-14.777	1.00	9.81	O
ANISOU	475	OG1 THR A 76	1422	1370	935	44	-324 -68	O
ATOM	476	CG2 THR A 76	25.010	21.896	-15.740	1.00	9.44	C
ANISOU	476	CG2 THR A 76	1088	1166	1333	-16	-36 100	C
ATOM	477	N VAL A 77	24.045	19.015	-16.360	1.00	8.41	N
ANISOU	477	N VAL A 77	1046	1463	684	7	-6 117	N
ATOM	478	CA VAL A 77	23.040	18.807	-17.379	1.00	9.19	C
ANISOU	478	CA VAL A 77	1181	1546	766	120	-124 58	C
ATOM	479	C VAL A 77	22.040	19.963	-17.338	1.00	9.30	C
ANISOU	479	C VAL A 77	954	1747	833	98	-19 27	C
ATOM	480	O VAL A 77	21.462	20.173	-16.276	1.00	10.02	O
ANISOU	480	O VAL A 77	1093	1945	767	118	-45 67	O
ATOM	481	CB VAL A 77	22.275	17.496	-17.196	1.00	9.66	C
ANISOU	481	CB VAL A 77	1379	1697	595	309	73 156	C
ATOM	482	CG1 VAL A 77	21.083	17.386	-18.124	1.00	10.78	C
ANISOU	482	CG1 VAL A 77	1581	1861	653	662	-25 -78	C
ATOM	483	CG2 VAL A 77	23.229	16.331	-17.419	1.00	10.94	C
ANISOU	483	CG2 VAL A 77	1793	1541	825	288	257 241	C
ATOM	484	N ALA A 78	21.826	20.673	-18.441	1.00	9.19	N
ANISOU	484	N ALA A 78	879	1835	778	-58	47 42	N
ATOM	485	CA ALA A 78	20.663	21.539	-18.575	1.00	9.05	C
ANISOU	485	CA ALA A 78	942	1322	1173	20	75 193	C
ATOM	486	C ALA A 78	19.566	20.694	-19.238	1.00	8.73	C
ANISOU	486	C ALA A 78	985	1537	795	-75	-87 88	C
ATOM	487	O ALA A 78	19.812	20.064	-20.257	1.00	10.22	O
ANISOU	487	O ALA A 78	1501	1550	831	118	59 132	O
ATOM	488	CB ALA A 78	20.893	22.810	-19.378	1.00	10.99	C
ANISOU	488	CB ALA A 78	1548	1630	999	124	19 -17	C
ATOM	489	N TRP A 79	18.382	20.676	-18.650	1.00	8.82	N
ANISOU	489	N TRP A 79	833	1643	877	-67	-199 -33	N

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ATOM	490	CA	TRP	A	79	17.354	19.724	-19.030	1.00	8.92		C
ANISOU	490	CA	TRP	A	79	1014	1814	562	43	-127	156	C
ATOM	491	C	TRP	A	79	16.513	20.197	-20.228	1.00	8.14		C
ANISOU	491	C	TRP	A	79	917	1458	718	102	-120	88	C
ATOM	492	O	TRP	A	79	15.293	20.206	-20.218	1.00	9.53		O
ANISOU	492	O	TRP	A	79	897	1741	984	80	-146	143	O
ATOM	493	CB	TRP	A	79	16.474	19.406	-17.824	1.00	9.16		C
ANISOU	493	CB	TRP	A	79	1288	1432	761	-56	57	-8	C
ATOM	494	CG	TRP	A	79	17.275	18.736	-16.742	1.00	8.96		C
ANISOU	494	CG	TRP	A	79	1220	1320	864	56	-21	-51	C
ATOM	495	CD1	TRP	A	79	17.721	19.292	-15.581	1.00	9.06		C
ANISOU	495	CD1	TRP	A	79	1355	1212	877	245	-8	-73	C
ATOM	496	CD2	TRP	A	79	17.716	17.379	-16.725	1.00	8.68		C
ANISOU	496	CD2	TRP	A	79	1216	1216	866	261	-222	-40	C
ATOM	497	NE1	TRP	A	79	18.417	18.374	-14.837	1.00	10.44		N
ANISOU	497	NE1	TRP	A	79	1772	1388	805	42	-198	88	N
ATOM	498	CE2	TRP	A	79	18.430	17.173	-15.516	1.00	9.13		C
ANISOU	498	CE2	TRP	A	79	1148	1443	880	-33	-240	159	C
ATOM	499	CE3	TRP	A	79	17.574	16.311	-17.605	1.00	9.35		C
ANISOU	499	CE3	TRP	A	79	1357	1511	685	-96	-132	156	C
ATOM	500	CZ2	TRP	A	79	18.996	15.963	-15.176	1.00	9.39		C
ANISOU	500	CZ2	TRP	A	79	1374	1509	683	-169	13	18	C
ATOM	501	CZ3	TRP	A	79	18.140	15.100	-17.262	1.00	10.12		C
ANISOU	501	CZ3	TRP	A	79	1398	1418	1028	-53	-234	176	C
ATOM	502	CH2	TRP	A	79	18.835	14.922	-16.081	1.00	9.11		C
ANISOU	502	CH2	TRP	A	79	1132	1542	788	-184	59	85	C
ATOM	503	N	LYS	A	80	17.281	20.575	-21.252	1.00	9.55		N
ANISOU	503	N	LYS	A	80	1266	1789	573	-30	67	79	N
ATOM	504	CA	LYS	A	80	16.738	20.876	-22.558	1.00	9.38		C
ANISOU	504	CA	LYS	A	80	1229	1602	731	-38	-40	130	C
ATOM	505	C	LYS	A	80	17.450	19.993	-23.567	1.00	10.07		C
ANISOU	505	C	LYS	A	80	1266	1923	637	-243	-273	260	C
ATOM	506	O	LYS	A	80	18.681	19.960	-23.610	1.00	10.06		O
ANISOU	506	O	LYS	A	80	1230	1511	1080	-208	-69	125	O
ATOM	507	CB	LYS	A	80	16.972	22.321	-22.939	1.00	10.32		C
ANISOU	507	CB	LYS	A	80	1496	1626	799	202	-373	98	C
ATOM	508	CG	LYS	A	80	16.472	22.695	-24.304	1.00	11.81		C
ANISOU	508	CG	LYS	A	80	1606	2138	743	356	-184	-143	C
ATOM	509	CD	LYS	A	80	16.860	24.125	-24.656	1.00	11.80		C
ANISOU	509	CD	LYS	A	80	1286	2281	917	355	38	-362	C
ATOM	510	CE	LYS	A	80	16.178	24.644	-25.909	1.00	15.29		C
ANISOU	510	CE	LYS	A	80	1763	2721	1327	743	-358	-728	C
ATOM	511	NZ	LYS	A	80	16.519	23.896	-27.122	1.00	24.31		N
ANISOU	511	NZ	LYS	A	80	5232	2904	1099	1518	-989	-95	N
ATOM	512	N	ASN	A	81	16.670	19.296	-24.366	1.00	10.34		N
ANISOU	512	N	ASN	A	81	1279	1912	735	-1	-64	235	N
ATOM	513	CA	ASN	A	81	17.175	18.559	-25.521	1.00	9.66		C
ANISOU	513	CA	ASN	A	81	1330	1727	613	303	33	182	C
ATOM	514	C	ASN	A	81	16.207	18.810	-26.662	1.00	11.01		C
ANISOU	514	C	ASN	A	81	1392	2161	630	222	-8	-43	C
ATOM	515	O	ASN	A	81	15.365	19.706	-26.603	1.00	13.46		O
ANISOU	515	O	ASN	A	81	2104	1988	1024	-42	-269	66	O
ATOM	516	CB	ASN	A	81	17.380	17.093	-25.199	1.00	10.68		C
ANISOU	516	CB	ASN	A	81	1470	1745	843	166	-181	239	C
ATOM	517	CG	ASN	A	81	16.151	16.317	-24.841	1.00	9.94		C
ANISOU	517	CG	ASN	A	81	1322	1287	1170	-29	-201	257	C

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ATOM	518	OD1 ASN A 81	15.044	16.793	-25.061	1.00	11.75	O
ANISOU	518	OD1 ASN A 81	1391	1903	1170	-7	-339 -165	O
ATOM	519	ND2 ASN A 81	16.280	15.109	-24.335	1.00	11.57	N
ANISOU	519	ND2 ASN A 81	1886	1404	1105	-15	-219 165	N
ATOM	520	N ASN A 82	16.358	18.031	-27.729	1.00	12.41	N
ANISOU	520	N ASN A 82	1738	2230	748	-69	-303 63	N
ATOM	521	CA ASN A 82	15.499	18.359	-28.865	1.00	14.08	C
ANISOU	521	CA ASN A 82	1984	2637	729	206	-409 45	C
ATOM	522	C ASN A 82	14.098	17.812	-28.734	1.00	12.95	C
ANISOU	522	C ASN A 82	2046	1916	960	227	-597 127	C
ATOM	523	O ASN A 82	13.372	17.935	-29.709	1.00	16.30	O
ANISOU	523	O ASN A 82	2039	3093	1061	341	-575 -273	O
ATOM	524	CB ASN A 82	16.163	17.898	-30.159	1.00	19.38	C
ANISOU	524	CB ASN A 82	2582	4005	776	-316	-293 185	C
ATOM	525	CG ASN A 82	17.437	18.665	-30.437	1.00	21.60	C
ANISOU	525	CG ASN A 82	2499	4251	1457	-586	308 -304	C
ATOM	526	OD1 ASN A 82	18.421	18.059	-30.862	1.00	28.02	O
ANISOU	526	OD1 ASN A 82	3048	5510	2089	-1099	712 -27	O
ATOM	527	ND2 ASN A 82	17.540	19.968	-30.220	1.00	21.64	N
ANISOU	527	ND2 ASN A 82	2537	4457	1227	-7	69 -19	N
ATOM	528	N TYR A 83	13.771	17.256	-27.597	1.00	11.70	N
ANISOU	528	N TYR A 83	1494	2041	909	-51	-447 166	N
ATOM	529	CA TYR A 83	12.438	16.689	-27.367	1.00	12.77	C
ANISOU	529	CA TYR A 83	1496	2054	1303	18	-516 254	C
ATOM	530	C TYR A 83	11.687	17.349	-26.222	1.00	13.13	C
ANISOU	530	C TYR A 83	1560	2193	1235	369	-194 84	C
ATOM	531	O TYR A 83	10.453	17.343	-26.154	1.00	17.29	O
ANISOU	531	O TYR A 83	1568	3750	1253	465	-65 163	O
ATOM	532	CB TYR A 83	12.573	15.160	-27.117	1.00	15.45	C
ANISOU	532	CB TYR A 83	2130	2037	1701	143	-592 -60	C
ATOM	533	CG TYR A 83	13.376	14.624	-28.296	1.00	16.49	C
ANISOU	533	CG TYR A 83	2545	1846	1874	-323	-741 151	C
ATOM	534	CD1 TYR A 83	12.719	14.401	-29.503	1.00	16.29	C
ANISOU	534	CD1 TYR A 83	2815	1668	1706	527	-550 -85	C
ATOM	535	CD2 TYR A 83	14.737	14.398	-28.252	1.00	20.51	C
ANISOU	535	CD2 TYR A 83	2749	2677	2365	-958	-696 628	C
ATOM	536	CE1 TYR A 83	13.379	13.924	-30.622	1.00	20.08	C
ANISOU	536	CE1 TYR A 83	3543	1769	2317	-778	-1050 839	C
ATOM	537	CE2 TYR A 83	15.405	13.926	-29.390	1.00	19.60	C
ANISOU	537	CE2 TYR A 83	2864	2061	2521	-371	-566 927	C
ATOM	538	CZ TYR A 83	14.741	13.694	-30.563	1.00	23.22	C
ANISOU	538	CZ TYR A 83	3595	2158	3071	-1066	-1104 1715	C
ATOM	539	OH TYR A 83	15.385	13.245	-31.726	1.00	19.90	O
ANISOU	539	OH TYR A 83	3371	2019	2170	-88	-694 340	O
ATOM	540	N ARG A 84	12.384	17.962	-25.287	1.00	12.34	N
ANISOU	540	N ARG A 84	1492	1728	1468	-144	-178 358	N
ATOM	541	CA ARG A 84	11.747	18.488	-24.074	1.00	11.90	C
ANISOU	541	CA ARG A 84	1279	1766	1476	-3	-127 256	C
ATOM	542	C ARG A 84	12.599	19.559	-23.429	1.00	9.21	C
ANISOU	542	C ARG A 84	961	1936	601	-33	-54 -33	C
ATOM	543	O ARG A 84	13.811	19.551	-23.549	1.00	11.84	O
ANISOU	543	O ARG A 84	992	2457	1048	33	-40 154	O
ATOM	544	CB ARG A 84	11.628	17.327	-23.118	1.00	15.50	C
ANISOU	544	CB ARG A 84	2447	1881	1561	315	-103 208	C
ATOM	545	CG ARG A 84	10.663	17.508	-21.953	1.00	18.86	C
ANISOU	545	CG ARG A 84	2847	2846	1474	-53	20 -184	C

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ATOM	546	CD	ARG	A	84	10.657	16.137	-21.284	1.00	28.04		C
ANISOU	546	CD	ARG	A	84	4611	4202	1842	-173	-435	-1761	C
ATOM	547	NE	ARG	A	84	9.736	15.984	-20.240	1.00	35.56		N
ANISOU	547	NE	ARG	A	84	5418	4407	3684	836	794	-1491	N
ATOM	548	CZ	ARG	A	84	8.841	15.040	-19.974	1.00	35.72		C
ANISOU	548	CZ	ARG	A	84	5383	4115	4074	971	521	-840	C
ATOM	549	NH1	ARG	A	84	8.121	15.203	-18.864	1.00	36.67		N
ANISOU	549	NH1	ARG	A	84	4725	6148	3061	3240	-294	94	N
ATOM	550	NH2	ARG	A	84	8.670	13.999	-20.775	1.00	33.19		N
ANISOU	550	NH2	ARG	A	84	4930	3877	3805	-341	-389	-983	N
ATOM	551	N	ASN	A	85	11.980	20.466	-22.713	1.00	10.90		N
ANISOU	551	N	ASN	A	85	1089	2091	963	102	-20	332	N
ATOM	552	CA	ASN	A	85	12.672	21.466	-21.936	1.00	10.60		C
ANISOU	552	CA	ASN	A	85	1093	2058	875	162	-138	145	C
ATOM	553	C	ASN	A	85	11.978	21.658	-20.587	1.00	10.63		C
ANISOU	553	C	ASN	A	85	1038	2092	908	47	-93	237	C
ATOM	554	O	ASN	A	85	10.838	22.097	-20.528	1.00	15.91		O
ANISOU	554	O	ASN	A	85	1187	3484	1375	-462	-92	115	O
ATOM	555	CB	ASN	A	85	12.767	22.796	-22.685	1.00	13.02		C
ANISOU	555	CB	ASN	A	85	1771	2099	1077	179	-202	-6	C
ATOM	556	CG	ASN	A	85	13.743	23.740	-22.012	1.00	12.19		C
ANISOU	556	CG	ASN	A	85	1754	1983	894	223	207	220	C
ATOM	557	OD1	ASN	A	85	14.282	23.495	-20.924	1.00	11.77		O
ANISOU	557	OD1	ASN	A	85	1425	1854	1194	146	0	126	O
ATOM	558	ND2	ASN	A	85	13.991	24.859	-22.689	1.00	12.91		N
ANISOU	558	ND2	ASN	A	85	1299	2238	1367	120	-117	-186	N
ATOM	559	N	ALA	A	86	12.691	21.329	-19.513	1.00	10.49		N
ANISOU	559	N	ALA	A	86	1086	2002	897	-34	-45	182	N
ATOM	560	CA	ALA	A	86	12.167	21.482	-18.172	1.00	10.60		C
ANISOU	560	CA	ALA	A	86	1560	1594	872	73	60	-45	C
ATOM	561	C	ALA	A	86	12.536	22.793	-17.508	1.00	9.61		C
ANISOU	561	C	ALA	A	86	1228	1747	677	90	-181	-52	C
ATOM	562	O	ALA	A	86	12.120	23.012	-16.375	1.00	12.28		O
ANISOU	562	O	ALA	A	86	1470	2079	1118	121	286	290	O
ATOM	563	CB	ALA	A	86	12.748	20.351	-17.309	1.00	11.03		C
ANISOU	563	CB	ALA	A	86	1245	1783	1163	-74	-362	34	C
ATOM	564	N	HIS	A	87	13.328	23.604	-18.198	1.00	10.68		N
ANISOU	564	N	HIS	A	87	1504	1576	978	27	-19	-122	N
ATOM	565	CA	HIS	A	87	13.770	24.892	-17.669	1.00	9.83		C
ANISOU	565	CA	HIS	A	87	1294	1600	841	-41	-224	-128	C
ATOM	566	C	HIS	A	87	14.423	24.689	-16.307	1.00	10.74		C
ANISOU	566	C	HIS	A	87	1147	2200	731	-205	-19	-130	C
ATOM	567	O	HIS	A	87	14.049	25.269	-15.284	1.00	11.15		O
ANISOU	567	O	HIS	A	87	1382	2024	831	-123	-62	36	O
ATOM	568	CB	HIS	A	87	12.586	25.849	-17.549	1.00	11.94		C
ANISOU	568	CB	HIS	A	87	1806	1863	869	-427	-309	21	C
ATOM	569	CG	HIS	A	87	11.866	26.112	-18.820	1.00	11.08		C
ANISOU	569	CG	HIS	A	87	1418	1863	927	-254	-202	-129	C
ATOM	570	ND1	HIS	A	87	12.554	26.500	-19.957	1.00	11.16		N
ANISOU	570	ND1	HIS	A	87	1397	1934	907	-62	-279	-187	N
ATOM	571	CD2	HIS	A	87	10.579	26.034	-19.181	1.00	12.67		C
ANISOU	571	CD2	HIS	A	87	1459	2244	1111	115	-219	-331	C
ATOM	572	CE1	HIS	A	87	11.705	26.654	-20.948	1.00	12.67		C
ANISOU	572	CE1	HIS	A	87	1313	2642	858	92	-293	-62	C
ATOM	573	NE2	HIS	A	87	10.494	26.387	-20.525	1.00	13.11		N
ANISOU	573	NE2	HIS	A	87	1441	2482	1058	315	-319	-327	N

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ATOM	574	N	SER A 88	15.462	23.849	-16.304	1.00	9.66	N	
ANISOU	574	N	SER A 88	1290	1710	671	-97	-147	-182	N
ATOM	575	CA	SER A 88	16.140	23.448	-15.090	1.00	8.77	C	
ANISOU	575	CA	SER A 88	1151	1459	725	17	-200	42	C
ATOM	576	C	SER A 88	17.517	22.909	-15.493	1.00	9.39	C	
ANISOU	576	C	SER A 88	1061	1567	939	80	-218	169	C
ATOM	577	O	SER A 88	17.773	22.610	-16.651	1.00	9.19	O	
ANISOU	577	O	SER A 88	1217	1497	780	-36	-136	-12	O
ATOM	578	CB	SER A 88	15.314	22.423	-14.317	1.00	9.37	C	
ANISOU	578	CB	SER A 88	1375	1604	583	-42	-102	-104	C
ATOM	579	OG	SER A 88	15.249	21.242	-15.071	1.00	10.61	O	
ANISOU	579	OG	SER A 88	1308	1621	1102	203	13	58	O
ATOM	580	N	ALA A 89	18.369	22.809	-14.452	1.00	8.37	N	
ANISOU	580	N	ALA A 89	1247	1303	629	-379	1	105	N
ATOM	581	CA	ALA A 89	19.712	22.290	-14.655	1.00	8.64	C	
ANISOU	581	CA	ALA A 89	1096	1329	857	-203	5	-187	C
ATOM	582	C	ALA A 89	20.162	21.593	-13.369	1.00	8.17	C	
ANISOU	582	C	ALA A 89	1180	1265	658	-154	-181	30	C
ATOM	583	O	ALA A 89	19.872	22.106	-12.307	1.00	9.20	O	
ANISOU	583	O	ALA A 89	1376	1310	810	-74	19	84	O
ATOM	584	CB	ALA A 89	20.716	23.344	-15.020	1.00	10.37	C	
ANISOU	584	CB	ALA A 89	1344	1377	1218	-27	-148	-254	C
ATOM	585	N	THR A 90	20.851	20.488	-13.518	1.00	7.95	N	
ANISOU	585	N	THR A 90	1127	1224	671	-92	-144	7	N
ATOM	586	CA	THR A 90	21.455	19.798	-12.366	1.00	7.98	C	
ANISOU	586	CA	THR A 90	1071	1284	677	-264	-124	105	C
ATOM	587	C	THR A 90	22.961	19.823	-12.506	1.00	7.66	C	
ANISOU	587	C	THR A 90	1081	895	933	-100	-136	131	C
ATOM	588	O	THR A 90	23.521	19.597	-13.573	1.00	9.03	O	
ANISOU	588	O	THR A 90	1112	1434	887	-158	-49	23	O
ATOM	589	CB	ATHR A 90	20.985	18.344	-12.324	0.80	8.55	C	
ANISOU	589	CB	ATHR A 90	975	1463	812	20	-146	-178	C
ATOM	590	CB	BTHR A 90	21.083	18.319	-12.209	0.20	9.52	C	
ATOM	591	OG1	ATHR A 90	19.554	18.366	-12.277	0.80	7.29	O	
ANISOU	591	OG1	ATHR A 90	951	1574	245	-223	-186	190	O
ATOM	592	OG1	BTHR A 90	19.836	18.184	-11.540	0.20	9.46	O	
ATOM	593	CG2	ATHR A 90	21.454	17.603	-11.094	0.80	7.37	C	
ANISOU	593	CG2	ATHR A 90	692	1494	614	-234	37	-21	C
ATOM	594	CG2	BTHR A 90	21.987	17.545	-11.250	0.20	6.23	C	
ATOM	595	N	THR A 91	23.637	20.030	-11.377	1.00	8.22	N	
ANISOU	595	N	THR A 91	1003	1144	974	-62	-115	106	N
ATOM	596	CA	THR A 91	25.044	19.753	-11.267	1.00	7.42	C	
ANISOU	596	CA	THR A 91	928	935	957	-104	58	95	C
ATOM	597	C	THR A 91	25.296	18.656	-10.243	1.00	7.40	C	
ANISOU	597	C	THR A 91	852	1127	831	-137	151	55	C
ATOM	598	O	THR A 91	24.696	18.676	-9.183	1.00	8.99	O	
ANISOU	598	O	THR A 91	1139	1368	911	-90	274	47	O
ATOM	599	CB	THR A 91	25.825	20.986	-10.829	1.00	7.31	C	
ANISOU	599	CB	THR A 91	1007	1153	617	-77	-159	88	C
ATOM	600	OG1	THR A 91	25.445	21.437	-9.525	1.00	10.07	O	
ANISOU	600	OG1	THR A 91	1746	1479	601	133	-42	120	O
ATOM	601	CG2	THR A 91	25.638	22.161	-11.781	1.00	9.37	C	
ANISOU	601	CG2	THR A 91	1646	1108	806	295	48	-78	C
ATOM	602	N	TRP A 92	26.192	17.751	-10.629	1.00	8.36	N	
ANISOU	602	N	TRP A 92	943	1270	965	-284	160	-130	N
ATOM	603	CA	TRP A 92	26.666	16.714	-9.749	1.00	7.72	C	

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ANISOU 603 CA TRP A 92	979	1091	862	-171	-144	152	C
ATOM 604 C TRP A 92	28.120	17.031	-9.365	1.00	6.67		C
ANISOU 604 C TRP A 92	986	883	666	49	65	-244	C
ATOM 605 O TRP A 92	28.900	17.288	-10.262	1.00	8.46		O
ANISOU 605 O TRP A 92	1292	1245	679	-31	259	-129	O
ATOM 606 CB TRP A 92	26.598	15.342	-10.371	1.00	8.44		C
ANISOU 606 CB TRP A 92	1068	1134	1005	35	25	121	C
ATOM 607 CG TRP A 92	25.278	14.755	-10.710	1.00	8.03		C
ANISOU 607 CG TRP A 92	1074	1190	786	79	-19	101	C
ATOM 608 CD1 TRP A 92	24.695	13.773	-9.970	1.00	8.10		C
ANISOU 608 CD1 TRP A 92	976	1111	991	-65	-56	-6	C
ATOM 609 CD2 TRP A 92	24.391	15.050	-11.789	1.00	8.96		C
ANISOU 609 CD2 TRP A 92	1203	1161	1040	70	-129	-70	C
ATOM 610 NE1 TRP A 92	23.488	13.444	-10.544	1.00	9.04		N
ANISOU 610 NE1 TRP A 92	1182	1215	1038	167	-128	18	N
ATOM 611 CE2 TRP A 92	23.279	14.203	-11.660	1.00	8.67		C
ANISOU 611 CE2 TRP A 92	941	1394	960	-32	-23	-1	C
ATOM 612 CE3 TRP A 92	24.422	15.935	-12.866	1.00	8.56		C
ANISOU 612 CE3 TRP A 92	1067	1403	781	-153	136	-12	C
ATOM 613 CZ2 TRP A 92	22.213	14.223	-12.557	1.00	9.80		C
ANISOU 613 CZ2 TRP A 92	1186	1280	1257	-166	-320	264	C
ATOM 614 CZ3 TRP A 92	23.372	15.964	-13.782	1.00	9.81		C
ANISOU 614 CZ3 TRP A 92	1236	1402	1089	-398	-121	86	C
ATOM 615 CH2 TRP A 92	22.294	15.104	-13.604	1.00	10.71		C
ANISOU 615 CH2 TRP A 92	1454	1755	859	-69	-312	308	C
ATOM 616 N SER A 93	28.377	16.958	-8.086	1.00	7.79		N
ANISOU 616 N SER A 93	955	1416	588	-54	28	-12	N
ATOM 617 CA SER A 93	29.711	17.180	-7.556	1.00	8.46		C
ANISOU 617 CA SER A 93	970	1356	889	-136	-25	-10	C
ATOM 618 C SER A 93	30.123	15.959	-6.779	1.00	7.51		C
ANISOU 618 C SER A 93	717	1335	800	93	-72	-12	C
ATOM 619 O SER A 93	29.372	15.515	-5.932	1.00	9.14		O
ANISOU 619 O SER A 93	1058	1480	936	-73	182	-87	O
ATOM 620 CB SER A 93	29.686	18.439	-6.717	1.00	9.46		C
ANISOU 620 CB SER A 93	982	1533	1080	-282	-175	223	C
ATOM 621 OG SER A 93	30.999	18.699	-6.254	1.00	10.74		O
ANISOU 621 OG SER A 93	1199	1342	1539	-44	-357	-5	O
ATOM 622 N GLY A 94	31.281	15.381	-7.011	1.00	8.28		N
ANISOU 622 N GLY A 94	710	1282	1153	93	3	-202	N
ATOM 623 CA GLY A 94	31.606	14.198	-6.240	1.00	9.34		C
ANISOU 623 CA GLY A 94	832	1144	1573	82	110	-260	C
ATOM 624 C GLY A 94	32.972	13.677	-6.539	1.00	9.65		C
ANISOU 624 C GLY A 94	1342	1350	973	-321	662	-598	C
ATOM 625 O GLY A 94	33.877	14.411	-6.924	1.00	9.42		O
ANISOU 625 O GLY A 94	1024	1605	951	-126	332	-403	O
ATOM 626 N GLN A 95	33.151	12.375	-6.407	1.00	10.51		N
ANISOU 626 N GLN A 95	1042	1303	1647	-177	81	-254	N
ATOM 627 CA GLN A 95	34.445	11.778	-6.665	1.00	10.60		C
ANISOU 627 CA GLN A 95	1015	1467	1545	-325	-150	18	C
ATOM 628 C GLN A 95	34.298	10.386	-7.251	1.00	10.62		C
ANISOU 628 C GLN A 95	1079	1316	1641	-188	160	-232	C
ATOM 629 O GLN A 95	33.374	9.644	-6.905	1.00	12.23		O
ANISOU 629 O GLN A 95	1266	1497	1884	-95	325	-43	O
ATOM 630 CB GLN A 95	35.266	11.683	-5.394	1.00	15.15		C
ANISOU 630 CB GLN A 95	1521	2744	1491	-847	-263	244	C
ATOM 631 CG GLN A 95	34.765	11.166	-4.111	1.00	18.76		C

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ANISOU	631	CG	GLN	A	95	1832	3740	1556	-787	-308	-104	C
ATOM	632	CD	GLN	A	95	35.740	11.426	-2.949	1.00	16.27		C
ANISOU	632	CD	GLN	A	95	1427	3372	1383	-261	90	-6	C
ATOM	633	OE1	GLN	A	95	36.960	11.342	-3.115	1.00	14.01		O
ANISOU	633	OE1	GLN	A	95	1526	2709	1087	-388	198	-275	O
ATOM	634	NE2	GLN	A	95	35.156	11.745	-1.795	1.00	15.64		N
ANISOU	634	NE2	GLN	A	95	1332	3299	1310	-496	126	-340	N
ATOM	635	N	TYR	A	96	35.260	10.087	-8.100	1.00	10.31		N
ANISOU	635	N	TYR	A	96	1195	1395	1328	-200	100	-127	N
ATOM	636	CA	TYR	A	96	35.376	8.757	-8.674	1.00	12.09		C
ANISOU	636	CA	TYR	A	96	1570	1615	1410	-339	-37	43	C
ATOM	637	C	TYR	A	96	36.284	7.939	-7.776	1.00	11.04		C
ANISOU	637	C	TYR	A	96	1217	1504	1474	-395	280	16	C
ATOM	638	O	TYR	A	96	37.383	8.378	-7.400	1.00	13.82		O
ANISOU	638	O	TYR	A	96	1155	2162	1933	-279	168	-131	O
ATOM	639	CB	TYR	A	96	35.968	8.875	-10.050	1.00	10.82		C
ANISOU	639	CB	TYR	A	96	1065	1593	1452	-295	-76	81	C
ATOM	640	CG	TYR	A	96	36.568	7.640	-10.648	1.00	11.62		C
ANISOU	640	CG	TYR	A	96	1315	1471	1630	-334	6	12	C
ATOM	641	CD1	TYR	A	96	35.796	6.718	-11.325	1.00	13.26		C
ANISOU	641	CD1	TYR	A	96	1528	1689	1821	-151	169	228	C
ATOM	642	CD2	TYR	A	96	37.933	7.382	-10.562	1.00	14.16		C
ANISOU	642	CD2	TYR	A	96	1387	1862	2131	-572	-84	243	C
ATOM	643	CE1	TYR	A	96	36.316	5.574	-11.900	1.00	16.73		C
ANISOU	643	CE1	TYR	A	96	1966	1553	2839	-344	-88	413	C
ATOM	644	CE2	TYR	A	96	38.485	6.254	-11.118	1.00	20.51		C
ANISOU	644	CE2	TYR	A	96	1619	2553	3620	-739	29	1137	C
ATOM	645	CZ	TYR	A	96	37.667	5.353	-11.782	1.00	21.05		C
ANISOU	645	CZ	TYR	A	96	2184	2325	3490	-905	-411	1062	C
ATOM	646	OH	TYR	A	96	38.175	4.216	-12.352	1.00	22.30		O
ANISOU	646	OH	TYR	A	96	2777	2470	3224	-1163	-328	1025	O
ATOM	647	N	VAL	A	97	35.780	6.750	-7.484	1.00	14.61		N
ANISOU	647	N	VAL	A	97	2092	1537	1922	-146	110	-143	N
ATOM	648	CA	VAL	A	97	36.522	5.741	-6.740	1.00	17.78		C
ANISOU	648	CA	VAL	A	97	2862	1656	2237	-359	-31	-315	C
ATOM	649	C	VAL	A	97	36.758	4.565	-7.683	1.00	17.50		C
ANISOU	649	C	VAL	A	97	1969	1780	2899	-389	-83	28	C
ATOM	650	O	VAL	A	97	35.797	3.851	-8.030	1.00	20.52		O
ANISOU	650	O	VAL	A	97	2106	1773	3920	-72	179	158	O
ATOM	651	CB	VAL	A	97	35.764	5.334	-5.485	1.00	21.61		C
ANISOU	651	CB	VAL	A	97	3493	2742	1975	-451	-108	-632	C
ATOM	652	CG1	VAL	A	97	36.684	4.457	-4.642	1.00	30.57		C
ANISOU	652	CG1	VAL	A	97	3967	4424	3225	-1091	197	-1982	C
ATOM	653	CG2	VAL	A	97	35.297	6.525	-4.667	1.00	27.06		C
ANISOU	653	CG2	VAL	A	97	4592	4105	1583	-1089	-283	43	C
ATOM	654	N	GLY	A	98	38.017	4.403	-8.082	1.00	21.16		N
ANISOU	654	N	GLY	A	98	2071	2575	3394	29	266	338	N
ATOM	655	CA	GLY	A	98	38.427	3.381	-9.006	1.00	26.07		C
ANISOU	655	CA	GLY	A	98	3075	2337	4493	-397	1394	98	C
ATOM	656	C	GLY	A	98	38.576	1.960	-8.531	1.00	32.81		C
ANISOU	656	C	GLY	A	98	3669	2269	6529	-148	698	-129	C
ATOM	657	O	GLY	A	98	38.115	1.620	-7.438	1.00	35.92		O
ANISOU	657	O	GLY	A	98	5350	1980	6317	-1458	535	-927	O
ATOM	658	N	GLY	A	99	39.211	1.129	-9.363	1.00	34.19		N
ANISOU	658	N	GLY	A	99	3937	2034	7021	-310	571	92	N
ATOM	659	CA	GLY	A	99	39.323	-0.296	-9.068	1.00	35.67		C

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ANISOU	659	CA	GLY A 99	4295	2118	7138	-152	413	-83	C
ATOM	660	C	GLY A 99	38.165	-1.088	-9.675	1.00	34.88		C
ANISOU	660	C	GLY A 99	4810	1710	6732	-532	-232	-44	C
ATOM	661	O	GLY A 99	37.200	-0.558	-10.217	1.00	39.31		O
ANISOU	661	O	GLY A 99	5929	2692	6315	-241	-1058	-1173	O
ATOM	662	N	ALA A 100	38.271	-2.404	-9.581	1.00	35.92		N
ANISOU	662	N	ALA A 100	5331	1710	6608	-290	187	-227	N
ATOM	663	CA	ALA A 100	37.339	-3.371	-10.136	1.00	35.66		C
ANISOU	663	CA	ALA A 100	5370	1600	6579	-291	-267	-702	C
ATOM	664	C	ALA A 100	35.886	-3.006	-9.882	1.00	40.46		C
ANISOU	664	C	ALA A 100	5250	3228	6897	-457	-414	-903	C
ATOM	665	O	ALA A 100	35.087	-3.287	-10.781	1.00	51.23		O
ANISOU	665	O	ALA A 100	5113	6667	7683	731	-137	433	O
ATOM	666	CB	ALA A 100	37.679	-4.747	-9.579	1.00	35.47		C
ANISOU	666	CB	ALA A 100	6348	1670	5460	-202	-994	-541	C
ATOM	667	N	GLU A 101	35.532	-2.410	-8.748	1.00	39.81		N
ANISOU	667	N	GLU A 101	5052	3693	6383	-1753	-763	-1500	N
ATOM	668	CA	GLU A 101	34.125	-2.050	-8.480	1.00	40.92		C
ANISOU	668	CA	GLU A 101	4876	2780	7891	-665	390	-2479	C
ATOM	669	C	GLU A 101	33.966	-0.531	-8.461	1.00	34.02		C
ANISOU	669	C	GLU A 101	3629	2683	6613	-338	911	-1759	C
ATOM	670	O	GLU A 101	33.740	0.109	-7.435	1.00	34.75		O
ANISOU	670	O	GLU A 101	3555	3799	5849	-1430	1652	-2515	O
ATOM	671	CB	GLU A 101	33.623	-2.671	-7.177	1.00	50.60		C
ANISOU	671	CB	GLU A 101	6281	4198	8747	435	327	-3570	C
ATOM	672	CG	GLU A 101	33.080	-4.084	-7.360	1.00	59.36		C
ANISOU	672	CG	GLU A 101	7862	4549	10143	1245	714	-3502	C
ATOM	673	CD	GLU A 101	32.646	-4.714	-6.047	1.00	65.63		C
ANISOU	673	CD	GLU A 101	8379	5657	10902	2618	2325	-3008	C
ATOM	674	OE1	GLU A 101	32.514	-3.967	-5.050	1.00	84.99		O
ANISOU	674	OE1	GLU A 101	10131	9413	12747	282	5568	-1281	O
ATOM	675	OE2	GLU A 101	32.432	-5.948	-5.972	1.00	80.37		O
ANISOU	675	OE2	GLU A 101	10699	5850	13988	2550	1379	-5192	O
ATOM	676	N	ALA A 102	34.099	0.076	-9.648	1.00	25.90		N
ANISOU	676	N	ALA A 102	3026	1260	5554	-581	513	-429	N
ATOM	677	CA	ALA A 102	34.202	1.531	-9.738	1.00	20.21		C
ANISOU	677	CA	ALA A 102	2294	1203	4182	-653	526	34	C
ATOM	678	C	ALA A 102	32.881	2.202	-9.378	1.00	19.14		C
ANISOU	678	C	ALA A 102	2076	1535	3662	-395	425	512	C
ATOM	679	O	ALA A 102	31.806	1.757	-9.767	1.00	18.52		O
ANISOU	679	O	ALA A 102	2217	1324	3495	-279	294	120	O
ATOM	680	CB	ALA A 102	34.683	1.901	-11.124	1.00	25.72		C
ANISOU	680	CB	ALA A 102	2778	2059	4933	-332	1525	-225	C
ATOM	681	N	ARG A 103	32.978	3.301	-8.611	1.00	15.25		N
ANISOU	681	N	ARG A 103	2140	1588	2068	-448	334	-72	N
ATOM	682	CA	ARG A 103	31.841	4.111	-8.237	1.00	13.88		C
ANISOU	682	CA	ARG A 103	2217	1306	1752	-387	356	-106	C
ATOM	683	C	ARG A 103	32.126	5.594	-8.481	1.00	13.22		C
ANISOU	683	C	ARG A 103	1650	1455	1917	-237	25	-345	C
ATOM	684	O	ARG A 103	33.274	6.022	-8.354	1.00	14.93		O
ANISOU	684	O	ARG A 103	1460	1777	2436	-336	192	-131	O
ATOM	685	CB	ARG A 103	31.493	3.942	-6.749	1.00	18.38		C
ANISOU	685	CB	ARG A 103	3163	1827	1993	-392	863	-412	C
ATOM	686	CG	ARG A 103	31.116	2.500	-6.389	1.00	24.20		C
ANISOU	686	CG	ARG A 103	4380	1910	2906	-677	391	-1285	C
ATOM	687	CD	ARG A 103	29.663	2.322	-6.746	1.00	25.62		C

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ANISOU	687	CD	ARG	A	103	5094	1562	3079	604	-261	-253	C
ATOM	688	NE	ARG	A	103	29.088	1.039	-6.376	1.00	30.85		N
ANISOU	688	NE	ARG	A	103	7186	1627	2911	1174	-13	-56	N
ATOM	689	CZ	ARG	A	103	29.308	-0.103	-7.019	1.00	35.74		C
ANISOU	689	CZ	ARG	A	103	8545	1716	3317	1448	1231	18	C
ATOM	690	NH1	ARG	A	103	30.120	-0.081	-8.074	1.00	34.11		N
ANISOU	690	NH1	ARG	A	103	4588	3313	5061	1354	857	697	N
ATOM	691	NH2	ARG	A	103	28.731	-1.237	-6.614	1.00	53.62		N
ANISOU	691	NH2	ARG	A	103	16172	2191	2011	3568	2428	397	N
ATOM	692	N	ILE	A	104	31.045	6.303	-8.792	1.00	10.49		N
ANISOU	692	N	ILE	A	104	1405	1161	1419	-34	55	-43	N
ATOM	693	CA	ILE	A	104	31.088	7.744	-8.685	1.00	10.54		C
ANISOU	693	CA	ILE	A	104	1248	1193	1564	57	117	-96	C
ATOM	694	C	ILE	A	104	30.038	8.144	-7.662	1.00	9.46		C
ANISOU	694	C	ILE	A	104	1255	738	1601	322	218	-124	C
ATOM	695	O	ILE	A	104	28.852	7.921	-7.858	1.00	11.22		O
ANISOU	695	O	ILE	A	104	1291	1401	1572	439	202	156	O
ATOM	696	CB	ILE	A	104	30.913	8.472	-10.036	1.00	10.42		C
ANISOU	696	CB	ILE	A	104	1017	1215	1726	336	240	-254	C
ATOM	697	CG1	ILE	A	104	32.065	8.155	-10.995	1.00	10.34		C
ANISOU	697	CG1	ILE	A	104	1042	1449	1439	42	29	-90	C
ATOM	698	CG2	ILE	A	104	30.763	9.963	-9.827	1.00	13.86		C
ANISOU	698	CG2	ILE	A	104	1790	1244	2230	-132	583	-323	C
ATOM	699	CD1	ILE	A	104	31.828	8.533	-12.431	1.00	12.12		C
ANISOU	699	CD1	ILE	A	104	1757	1465	1384	2	-120	103	C
ATOM	700	N	ASN	A	105	30.505	8.757	-6.568	1.00	10.51		N
ANISOU	700	N	ASN	A	105	859	1572	1562	173	173	-32	N
ATOM	701	CA	ASN	A	105	29.641	9.142	-5.453	1.00	10.58		C
ANISOU	701	CA	ASN	A	105	1430	1246	1343	-189	174	-303	C
ATOM	702	C	ASN	A	105	29.434	10.637	-5.499	1.00	9.03		C
ANISOU	702	C	ASN	A	105	1069	1252	1112	30	-119	-232	C
ATOM	703	O	ASN	A	105	30.420	11.366	-5.531	1.00	11.48		O
ANISOU	703	O	ASN	A	105	1109	1433	1818	107	75	50	O
ATOM	704	CB	ASN	A	105	30.261	8.753	-4.111	1.00	12.48		C
ANISOU	704	CB	ASN	A	105	1654	1562	1526	-356	35	-503	C
ATOM	705	CG	ASN	A	105	30.482	7.252	-4.067	1.00	14.79		C
ANISOU	705	CG	ASN	A	105	2063	1582	1976	-285	66	-779	C
ATOM	706	OD1	ASN	A	105	29.563	6.483	-4.318	1.00	21.55		O
ANISOU	706	OD1	ASN	A	105	2369	1677	4143	-6	142	-541	O
ATOM	707	ND2	ASN	A	105	31.707	6.861	-3.777	1.00	20.92		N
ANISOU	707	ND2	ASN	A	105	2713	1752	3485	-694	-976	-743	N
ATOM	708	N	THR	A	106	28.190	11.077	-5.542	1.00	9.18		N
ANISOU	708	N	THR	A	106	1095	1237	1156	-49	-97	-50	N
ATOM	709	CA	THR	A	106	27.889	12.471	-5.825	1.00	8.70		C
ANISOU	709	CA	THR	A	106	1188	1123	995	-33	-49	116	C
ATOM	710	C	THR	A	106	26.820	13.041	-4.879	1.00	7.90		C
ANISOU	710	C	THR	A	106	803	1241	958	4	-159	-118	C
ATOM	711	O	THR	A	106	25.996	12.338	-4.326	1.00	10.63		O
ANISOU	711	O	THR	A	106	1320	1375	1343	219	150	-90	O
ATOM	712	CB	THR	A	106	27.371	12.726	-7.259	1.00	9.15		C
ANISOU	712	CB	THR	A	106	1060	1355	1063	-303	-176	157	C
ATOM	713	OG1	THR	A	106	26.054	12.164	-7.414	1.00	10.07		O
ANISOU	713	OG1	THR	A	106	1257	1647	921	-22	-79	63	O
ATOM	714	CG2	THR	A	106	28.265	12.104	-8.306	1.00	10.43		C
ANISOU	714	CG2	THR	A	106	1373	1478	1113	-101	58	290	C
ATOM	715	N	GLN	A	107	26.868	14.362	-4.791	1.00	8.14		N

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ANISOU	715	N	GLN A 107	839	1220	1033	26	109	100	N
ATOM	716	CA	GLN A 107	25.751	15.156	-4.355	1.00	9.05		C
ANISOU	716	CA	GLN A 107	1020	1538	879	-152	250	2	C
ATOM	717	C	GLN A 107	25.380	16.070	-5.520	1.00	8.25		C
ANISOU	717	C	GLN A 107	1023	974	1139	161	85	15	C
ATOM	718	O	GLN A 107	26.250	16.378	-6.336	1.00	8.77		O
ANISOU	718	O	GLN A 107	926	1258	1150	117	-31	-168	O
ATOM	719	CB	GLN A 107	26.090	15.904	-3.072	1.00	10.83		C
ANISOU	719	CB	GLN A 107	1414	1445	1255	-492	-41	242	C
ATOM	720	CG	GLN A 107	26.460	14.882	-2.007	1.00	17.44		C
ANISOU	720	CG	GLN A 107	2801	2507	1317	-659	-714	-104	C
ATOM	721	CD	GLN A 107	26.752	15.442	-0.656	1.00	15.82		C
ANISOU	721	CD	GLN A 107	1523	2770	1718	-807	-858	426	C
ATOM	722	OE1	GLN A 107	27.898	15.719	-0.281	1.00	20.75		O
ANISOU	722	OE1	GLN A 107	1693	3376	2814	-129	-1139	-467	O
ATOM	723	NE2	GLN A 107	25.665	15.566	0.027	1.00	17.89		N
ANISOU	723	NE2	GLN A 107	1997	2878	1924	510	-181	444	N
ATOM	724	N	TRP A 108	24.125	16.462	-5.589	1.00	7.65		N
ANISOU	724	N	TRP A 108	1147	1129	629	72	227	-90	N
ATOM	725	CA	TRP A 108	23.680	17.260	-6.726	1.00	8.02		C
ANISOU	725	CA	TRP A 108	1232	1180	636	91	110	-18	C
ATOM	726	C	TRP A 108	22.749	18.369	-6.274	1.00	9.00		C
ANISOU	726	C	TRP A 108	1149	1354	919	-23	-5	48	C
ATOM	727	O	TRP A 108	22.102	18.309	-5.231	1.00	8.30		O
ANISOU	727	O	TRP A 108	1018	1067	1067	-62	89	-22	O
ATOM	728	CB	TRP A 108	23.031	16.402	-7.833	1.00	8.66		C
ANISOU	728	CB	TRP A 108	814	1539	936	88	9	185	C
ATOM	729	CG	TRP A 108	21.928	15.480	-7.430	1.00	7.76		C
ANISOU	729	CG	TRP A 108	948	1241	760	-56	37	-72	C
ATOM	730	CD1	TRP A 108	22.002	14.108	-7.256	1.00	9.57		C
ANISOU	730	CD1	TRP A 108	1471	1327	840	-223	365	-153	C
ATOM	731	CD2	TRP A 108	20.562	15.827	-7.150	1.00	7.56		C
ANISOU	731	CD2	TRP A 108	1000	1112	760	100	185	243	C
ATOM	732	NE1	TRP A 108	20.761	13.590	-6.881	1.00	9.47		N
ANISOU	732	NE1	TRP A 108	1426	1242	930	47	-67	-244	N
ATOM	733	CE2	TRP A 108	19.870	14.643	-6.814	1.00	8.85		C
ANISOU	733	CE2	TRP A 108	894	1349	1122	237	-456	-245	C
ATOM	734	CE3	TRP A 108	19.858	17.048	-7.160	1.00	8.15		C
ANISOU	734	CE3	TRP A 108	871	1224	1001	73	220	319	C
ATOM	735	CZ2	TRP A 108	18.522	14.670	-6.492	1.00	9.26		C
ANISOU	735	CZ2	TRP A 108	1065	1391	1060	401	-165	122	C
ATOM	736	CZ3	TRP A 108	18.499	17.030	-6.828	1.00	8.37		C
ANISOU	736	CZ3	TRP A 108	763	1417	999	167	26	106	C
ATOM	737	CH2	TRP A 108	17.835	15.866	-6.498	1.00	9.20		C
ANISOU	737	CH2	TRP A 108	1090	1406	1001	322	105	182	C
ATOM	738	N	LEU A 109	22.672	19.375	-7.136	1.00	8.10		N
ANISOU	738	N	LEU A 109	999	1267	812	-83	139	208	N
ATOM	739	CA	LEU A 109	21.819	20.531	-6.998	1.00	7.62		C
ANISOU	739	CA	LEU A 109	938	1289	667	-100	169	301	C
ATOM	740	C	LEU A 109	21.028	20.706	-8.295	1.00	7.41		C
ANISOU	740	C	LEU A 109	1009	1033	772	171	128	6	C
ATOM	741	O	LEU A 109	21.664	20.842	-9.330	1.00	8.74		O
ANISOU	741	O	LEU A 109	903	1651	768	-27	34	-204	O
ATOM	742	CB	LEU A 109	22.634	21.808	-6.763	1.00	8.26		C
ANISOU	742	CB	LEU A 109	1204	1234	700	-71	-74	129	C
ATOM	743	CG	LEU A 109	23.434	21.890	-5.456	1.00	8.07		C

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ANISOU 743 CG LEU A 109	912	1316	839	53	-141	-126	C
ATOM 744 CD1 LEU A 109	24.376	23.070	-5.434	1.00	9.94		C
ANISOU 744 CD1 LEU A 109	1143	1358	1276	183	-101	14	C
ATOM 745 CD2 LEU A 109	22.490	21.962	-4.255	1.00	11.05		C
ANISOU 745 CD2 LEU A 109	1457	2062	681	197	-4	-138	C
ATOM 746 N LEU A 110	19.726	20.712	-8.227	1.00	8.03		N
ANISOU 746 N LEU A 110	1006	1369	676	6	59	120	N
ATOM 747 CA LEU A 110	18.844	20.834	-9.372	1.00	7.81		C
ANISOU 747 CA LEU A 110	1154	1253	560	14	64	190	C
ATOM 748 C LEU A 110	18.126	22.175	-9.192	1.00	7.92		C
ANISOU 748 C LEU A 110	1267	1257	486	-78	60	122	C
ATOM 749 O LEU A 110	17.291	22.320	-8.298	1.00	10.01		O
ANISOU 749 O LEU A 110	1607	1510	685	-224	298	145	O
ATOM 750 CB LEU A 110	17.860	19.738	-9.421	1.00	9.02		C
ANISOU 750 CB LEU A 110	1219	1287	920	139	15	220	C
ATOM 751 CG LEU A 110	16.627	19.772	-10.303	1.00	11.38		C
ANISOU 751 CG LEU A 110	1550	1419	1353	204	-407	11	C
ATOM 752 CD1 LEU A 110	16.862	20.235	-11.711	1.00	15.79		C
ANISOU 752 CD1 LEU A 110	1395	3134	1473	465	-366	-382	C
ATOM 753 CD2 LEU A 110	15.995	18.380	-10.327	1.00	15.67		C
ANISOU 753 CD2 LEU A 110	1860	1926	2168	834	-345	303	C
ATOM 754 N THR A 111	18.497	23.146	-10.001	1.00	8.79		N
ANISOU 754 N THR A 111	1151	1503	686	-190	-29	-145	N
ATOM 755 CA THR A 111	17.874	24.461	-9.953	1.00	8.12		C
ANISOU 755 CA THR A 111	842	1506	736	-100	73	-263	C
ATOM 756 C THR A 111	16.917	24.583	-11.124	1.00	7.93		C
ANISOU 756 C THR A 111	1012	1348	654	-195	84	-52	C
ATOM 757 O THR A 111	17.287	24.383	-12.285	1.00	8.67		O
ANISOU 757 O THR A 111	1309	1261	723	-176	105	90	O
ATOM 758 CB THR A 111	18.892	25.607	-10.011	1.00	8.39		C
ANISOU 758 CB THR A 111	1317	1523	350	67	145	-159	C
ATOM 759 OG1 THR A 111	19.817	25.496	-8.929	1.00	10.39		O
ANISOU 759 OG1 THR A 111	1443	1422	1083	100	-293	24	O
ATOM 760 CG2 THR A 111	18.159	26.920	-9.886	1.00	11.37		C
ANISOU 760 CG2 THR A 111	1248	1566	1505	-50	65	-54	C
ATOM 761 N SER A 112	15.683	24.920	-10.803	1.00	8.65		N
ANISOU 761 N SER A 112	810	1762	713	36	-62	40	N
ATOM 762 CA SER A 112	14.711	25.303	-11.789	1.00	9.53		C
ANISOU 762 CA SER A 112	1021	1769	832	-68	-142	-53	C
ATOM 763 C SER A 112	14.662	26.801	-11.963	1.00	10.83		C
ANISOU 763 C SER A 112	1261	1787	1066	-129	-218	19	C
ATOM 764 O SER A 112	14.782	27.564	-11.017	1.00	11.62		O
ANISOU 764 O SER A 112	1532	1785	1099	-454	-423	75	O
ATOM 765 CB SER A 112	13.329	24.806	-11.353	1.00	11.53		C
ANISOU 765 CB SER A 112	905	2125	1352	82	-247	130	C
ATOM 766 OG SER A 112	13.242	23.406	-11.293	1.00	12.73		O
ANISOU 766 OG SER A 112	1005	2097	1736	180	-158	87	O
ATOM 767 N GLY A 113	14.439	27.219	-13.211	1.00	10.44		N
ANISOU 767 N GLY A 113	1518	1483	964	-259	10	70	N
ATOM 768 CA GLY A 113	14.147	28.617	-13.421	1.00	12.01		C
ANISOU 768 CA GLY A 113	1615	1606	1343	-468	322	-48	C
ATOM 769 C GLY A 113	12.777	28.867	-12.803	1.00	11.18		C
ANISOU 769 C GLY A 113	1730	1913	605	-605	294	-73	C
ATOM 770 O GLY A 113	11.786	28.192	-12.953	1.00	18.67		O
ANISOU 770 O GLY A 113	1686	2366	3042	-299	506	-37	O
ATOM 771 N THR A 114	12.576	29.853	-12.010	1.00	15.71		N

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ANISOU 771 N THR A 114	2377	2531	1060	-1250	10	239	N
ATOM 772 CA THR A 114	11.612	30.541	-11.288	1.00	10.79		C
ANISOU 772 CA THR A 114	1477	1576	1048	-67	159	459	C
ATOM 773 C THR A 114	11.583	32.068	-11.456	1.00	11.88		C
ANISOU 773 C THR A 114	1212	1704	1600	-216	-170	97	C
ATOM 774 O THR A 114	12.506	32.771	-11.809	1.00	12.22		O
ANISOU 774 O THR A 114	1541	1616	1484	-236	179	-13	O
ATOM 775 CB THR A 114	11.759	30.307	-9.757	1.00	11.99		C
ANISOU 775 CB THR A 114	1314	2095	1145	-213	47	117	C
ATOM 776 OG1 THR A 114	12.789	31.084	-9.167	1.00	12.29		O
ANISOU 776 OG1 THR A 114	1225	2199	1244	-249	-164	-70	O
ATOM 777 CG2 THR A 114	12.110	28.851	-9.468	1.00	14.68		C
ANISOU 777 CG2 THR A 114	1792	2135	1651	-366	-435	87	C
ATOM 778 N THR A 115	10.391	32.565	-11.093	1.00	13.00		N
ANISOU 778 N THR A 115	1269	2018	1652	-538	-164	-516	N
ATOM 779 CA THR A 115	10.272	33.989	-10.876	1.00	14.11		C
ANISOU 779 CA THR A 115	1783	2035	1543	-817	266	-565	C
ATOM 780 C THR A 115	11.066	34.373	-9.640	1.00	13.73		C
ANISOU 780 C THR A 115	2168	1673	1377	-452	489	-525	C
ATOM 781 O THR A 115	11.457	33.538	-8.807	1.00	12.57		O
ANISOU 781 O THR A 115	1626	1588	1563	-337	100	-287	O
ATOM 782 CB THR A 115	8.800	34.387	-10.745	1.00	15.54		C
ANISOU 782 CB THR A 115	1658	2045	2202	-425	821	-67	C
ATOM 783 OG1 THR A 115	8.359	33.795	-9.525	1.00	17.90		O
ANISOU 783 OG1 THR A 115	2131	2625	2044	-806	658	-260	O
ATOM 784 CG2 THR A 115	7.931	33.818	-11.857	1.00	19.03		C
ANISOU 784 CG2 THR A 115	1625	3438	2168	-1033	288	-105	C
ATOM 785 N GLU A 116	11.327	35.669	-9.480	1.00	17.17		N
ANISOU 785 N GLU A 116	3084	1609	1830	-535	646	-366	N
ATOM 786 CA GLU A 116	12.057	36.090	-8.268	1.00	18.07		C
ANISOU 786 CA GLU A 116	2740	1679	2448	-247	500	-120	C
ATOM 787 C GLU A 116	11.328	35.718	-6.978	1.00	17.11		C
ANISOU 787 C GLU A 116	2461	2187	1854	-711	151	78	C
ATOM 788 O GLU A 116	11.958	35.317	-5.992	1.00	18.07		O
ANISOU 788 O GLU A 116	2428	2191	2245	-497	-235	-6	O
ATOM 789 CB GLU A 116	12.391	37.603	-8.361	1.00	22.65		C
ANISOU 789 CB GLU A 116	3560	1513	3534	-510	650	124	C
ATOM 790 CG GLU A 116	13.405	37.839	-9.495	1.00	38.39		C
ANISOU 790 CG GLU A 116	5559	4098	4929	1435	1672	-1182	C
ATOM 791 CD GLU A 116	13.679	39.302	-9.725	1.00	42.78		C
ANISOU 791 CD GLU A 116	7284	3517	5455	53	3180	-777	C
ATOM 792 OE1 GLU A 116	13.199	40.111	-8.902	1.00	62.63		O
ANISOU 792 OE1 GLU A 116	12268	4985	6542	-2572	4716	-1115	O
ATOM 793 OE2 GLU A 116	14.345	39.630	-10.716	1.00	45.79		O
ANISOU 793 OE2 GLU A 116	6450	3021	7927	697	4498	-695	O
ATOM 794 N ALA A 117	9.998	35.852	-6.985	1.00	17.06		N
ANISOU 794 N ALA A 117	2564	2423	1495	-1105	212	-314	N
ATOM 795 CA ALA A 117	9.194	35.587	-5.812	1.00	16.40		C
ANISOU 795 CA ALA A 117	2508	2255	1469	-1145	143	-222	C
ATOM 796 C ALA A 117	9.320	34.121	-5.396	1.00	16.01		C
ANISOU 796 C ALA A 117	2761	2285	1037	-1008	-144	-192	C
ATOM 797 O ALA A 117	9.175	33.797	-4.238	1.00	20.70		O
ANISOU 797 O ALA A 117	3632	3019	1212	-1707	440	-543	O
ATOM 798 CB ALA A 117	7.743	35.952	-6.026	1.00	20.85		C
ANISOU 798 CB ALA A 117	2665	3445	1812	-1844	337	-151	C
ATOM 799 N ASN A 118	9.602	33.254	-6.340	1.00	14.73		N

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ANISOU	799	N	ASN A 118	2072	2176	1348	-929	269	-168	N
ATOM	800	CA	ASN A 118	9.657	31.828	-6.089	1.00	13.56		C
ANISOU	800	CA	ASN A 118	1255	2136	1759	-428	302	-220	C
ATOM	801	C	ASN A 118	11.089	31.285	-6.032	1.00	11.13		C
ANISOU	801	C	ASN A 118	1182	1801	1245	-291	73	-315	C
ATOM	802	O	ASN A 118	11.285	30.071	-5.939	1.00	11.62		O
ANISOU	802	O	ASN A 118	1306	1760	1348	-179	-58	-397	O
ATOM	803	CB	ASN A 118	8.872	31.085	-7.168	1.00	13.11		C
ANISOU	803	CB	ASN A 118	1085	2201	1697	-598	-50	-562	C
ATOM	804	CG	ASN A 118	7.393	31.271	-7.058	1.00	15.11		C
ANISOU	804	CG	ASN A 118	1203	2802	1738	-892	41	-157	C
ATOM	805	OD1	ASN A 118	6.865	31.459	-5.975	1.00	17.31		O
ANISOU	805	OD1	ASN A 118	1438	3206	1935	-492	338	-222	O
ATOM	806	ND2	ASN A 118	6.702	31.235	-8.208	1.00	18.51		N
ANISOU	806	ND2	ASN A 118	1095	3923	2013	-487	-138	-284	N
ATOM	807	N	ALA A 119	12.083	32.156	-6.059	1.00	11.14		N
ANISOU	807	N	ALA A 119	1320	1664	1249	-254	-1	58	N
ATOM	808	CA	ALA A 119	13.489	31.706	-6.073	1.00	10.84		C
ANISOU	808	CA	ALA A 119	1244	1616	1260	-180	141	-179	C
ATOM	809	C	ALA A 119	13.833	30.905	-4.836	1.00	10.80		C
ANISOU	809	C	ALA A 119	1355	1529	1218	-226	264	-230	C
ATOM	810	O	ALA A 119	14.715	30.017	-4.868	1.00	10.23		O
ANISOU	810	O	ALA A 119	1207	1763	916	-250	-148	199	O
ATOM	811	CB	ALA A 119	14.460	32.882	-6.264	1.00	14.27		C
ANISOU	811	CB	ALA A 119	1633	2127	1662	179	270	-674	C
ATOM	812	N	TRP A 120	13.151	31.166	-3.704	1.00	9.80		N
ANISOU	812	N	TRP A 120	1174	1400	1149	-212	-35	63	N
ATOM	813	CA	TRP A 120	13.487	30.430	-2.494	1.00	10.49		C
ANISOU	813	CA	TRP A 120	1222	1733	1030	-156	118	-16	C
ATOM	814	C	TRP A 120	13.277	28.932	-2.684	1.00	10.07		C
ANISOU	814	C	TRP A 120	1464	1627	736	-384	241	-68	C
ATOM	815	O	TRP A 120	13.911	28.128	-1.993	1.00	12.47		O
ANISOU	815	O	TRP A 120	1697	1937	1105	-561	116	-172	O
ATOM	816	CB	TRP A 120	12.712	30.984	-1.306	1.00	11.49		C
ANISOU	816	CB	TRP A 120	1431	1909	1026	-113	-118	474	C
ATOM	817	CG	TRP A 120	11.245	30.728	-1.434	1.00	11.28		C
ANISOU	817	CG	TRP A 120	1285	1979	1023	-246	136	8	C
ATOM	818	CD1	TRP A 120	10.327	31.509	-2.064	1.00	12.56		C
ANISOU	818	CD1	TRP A 120	1276	2048	1450	-492	463	-200	C
ATOM	819	CD2	TRP A 120	10.568	29.578	-0.913	1.00	10.16		C
ANISOU	819	CD2	TRP A 120	1461	1672	726	-242	51	311	C
ATOM	820	NE1	TRP A 120	9.088	30.916	-1.962	1.00	11.77		N
ANISOU	820	NE1	TRP A 120	1308	2112	1053	-346	136	111	N
ATOM	821	CE2	TRP A 120	9.219	29.738	-1.264	1.00	12.20		C
ANISOU	821	CE2	TRP A 120	1372	2224	1038	-101	188	21	C
ATOM	822	CE3	TRP A 120	10.935	28.443	-0.193	1.00	12.82		C
ANISOU	822	CE3	TRP A 120	1937	1878	1055	-40	-193	70	C
ATOM	823	CZ2	TRP A 120	8.273	28.792	-0.911	1.00	13.36		C
ANISOU	823	CZ2	TRP A 120	1674	2362	1040	112	292	181	C
ATOM	824	CZ3	TRP A 120	9.981	27.496	0.163	1.00	13.25		C
ANISOU	824	CZ3	TRP A 120	2155	1759	1123	-87	315	247	C
ATOM	825	CH2	TRP A 120	8.651	27.683	-0.197	1.00	14.11		C
ANISOU	825	CH2	TRP A 120	2019	2129	1214	86	459	218	C
ATOM	826	N	LYS A 121	12.384	28.567	-3.597	1.00	10.11		N
ANISOU	826	N	LYS A 121	1435	1455	954	-115	190	-214	N
ATOM	827	CA	LYS A 121	12.106	27.166	-3.785	1.00	10.80		C

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ANISOU 827 CA LYS A 121	1379	1320	1405	-448	182	-139	C
ATOM 828 C LYS A 121	12.609	26.664	-5.128	1.00	10.07		C
ANISOU 828 C LYS A 121	1526	1386	915	51	-222	-223	C
ATOM 829 O LYS A 121	12.087	25.696	-5.687	1.00	12.55		O
ANISOU 829 O LYS A 121	1539	1632	1598	232	-61	103	O
ATOM 830 CB LYS A 121	10.624	26.864	-3.604	1.00	12.70		C
ANISOU 830 CB LYS A 121	1413	1658	1755	-53	-32	237	C
ATOM 831 CG LYS A 121	9.667	27.667	-4.455	1.00	13.41		C
ANISOU 831 CG LYS A 121	1271	2407	1419	-28	-125	331	C
ATOM 832 CD LYS A 121	8.202	27.284	-4.269	1.00	14.52		C
ANISOU 832 CD LYS A 121	1318	2577	1621	129	-160	706	C
ATOM 833 CE LYS A 121	7.310	28.229	-5.079	1.00	19.87		C
ANISOU 833 CE LYS A 121	1322	3844	2383	-109	-283	-51	C
ATOM 834 NZ LYS A 121	5.911	27.708	-5.128	1.00	22.79		N
ANISOU 834 NZ LYS A 121	1207	4181	3270	-134	102	-1057	N
ATOM 835 N SER A 122	13.669	27.280	-5.636	1.00	9.71		N
ANISOU 835 N SER A 122	1346	1500	842	73	-208	122	N
ATOM 836 CA SER A 122	14.199	26.874	-6.910	1.00	9.20		C
ANISOU 836 CA SER A 122	1394	1494	609	-10	-396	-27	C
ATOM 837 C SER A 122	15.086	25.640	-6.920	1.00	10.07		C
ANISOU 837 C SER A 122	1301	1637	888	-88	-286	92	C
ATOM 838 O SER A 122	15.281	25.071	-7.989	1.00	10.44		O
ANISOU 838 O SER A 122	1279	1927	762	-233	-155	-7	O
ATOM 839 CB SER A 122	15.079	28.002	-7.474	1.00	11.83		C
ANISOU 839 CB SER A 122	1968	1560	967	212	111	218	C
ATOM 840 OG SER A 122	16.203	28.182	-6.640	1.00	11.76		O
ANISOU 840 OG SER A 122	1751	1508	1209	409	227	184	O
ATOM 841 N THR A 123	15.638	25.234	-5.773	1.00	8.46		N
ANISOU 841 N THR A 123	1064	1342	807	-47	-20	-15	N
ATOM 842 CA THR A 123	16.726	24.286	-5.861	1.00	8.52		C
ANISOU 842 CA THR A 123	1056	1315	864	-20	-21	114	C
ATOM 843 C THR A 123	16.481	23.066	-4.984	1.00	7.95		C
ANISOU 843 C THR A 123	948	1270	802	-30	-18	165	C
ATOM 844 O THR A 123	16.301	23.230	-3.769	1.00	9.90		O
ANISOU 844 O THR A 123	1675	1372	716	-1	-116	201	O
ATOM 845 CB THR A 123	18.065	24.971	-5.442	1.00	9.02		C
ANISOU 845 CB THR A 123	1114	1162	1152	-29	-57	168	C
ATOM 846 OG1 THR A 123	18.277	26.196	-6.151	1.00	10.60		O
ANISOU 846 OG1 THR A 123	1411	1239	1378	1	123	-28	O
ATOM 847 CG2 THR A 123	19.258	24.073	-5.740	1.00	8.96		C
ANISOU 847 CG2 THR A 123	1107	1656	642	-262	-117	42	C
ATOM 848 N LEU A 124	16.542	21.902	-5.606	1.00	7.99		N
ANISOU 848 N LEU A 124	1322	1275	438	-231	203	-3	N
ATOM 849 CA LEU A 124	16.511	20.613	-4.947	1.00	8.69		C
ANISOU 849 CA LEU A 124	1227	1285	791	-29	-35	-96	C
ATOM 850 C LEU A 124	17.949	20.114	-4.730	1.00	8.56		C
ANISOU 850 C LEU A 124	1216	1316	720	-68	-6	-110	C
ATOM 851 O LEU A 124	18.832	20.437	-5.548	1.00	8.71		O
ANISOU 851 O LEU A 124	1368	1272	668	-152	142	-99	O
ATOM 852 CB LEU A 124	15.721	19.578	-5.741	1.00	8.99		C
ANISOU 852 CB LEU A 124	1205	1499	710	95	96	-74	C
ATOM 853 CG LEU A 124	14.223	19.831	-5.867	1.00	9.19		C
ANISOU 853 CG LEU A 124	1252	1297	944	99	-71	-102	C
ATOM 854 CD1 LEU A 124	13.664	18.999	-6.986	1.00	13.99		C
ANISOU 854 CD1 LEU A 124	1725	2288	1303	556	-157	346	C
ATOM 855 CD2 LEU A 124	13.491	19.503	-4.584	1.00	11.22		C

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ANISOU	855	CD2 LEU A 124	1101	1986	1176	213	130	-53	C
ATOM	856	N VAL A 125	18.132	19.343	-3.654	1.00	9.37		N
ANISOU	856	N VAL A 125	1107	1656	797	-79	94	-279	N
ATOM	857	CA VAL A 125	19.422	18.762	-3.333	1.00	8.06		C
ANISOU	857	CA VAL A 125	1071	1196	794	49	69	-255	C
ATOM	858	C VAL A 125	19.203	17.262	-3.113	1.00	8.35		C
ANISOU	858	C VAL A 125	1144	1151	876	191	291	-6	C
ATOM	859	O VAL A 125	18.223	16.819	-2.552	1.00	9.41		O
ANISOU	859	O VAL A 125	1048	1456	1072	216	185	-160	O
ATOM	860	CB VAL A 125	20.125	19.379	-2.116	1.00	8.99		C
ANISOU	860	CB VAL A 125	1116	1195	1105	176	-4	-45	C
ATOM	861	CG1 VAL A 125	19.295	19.224	-0.834	1.00	10.49		C
ANISOU	861	CG1 VAL A 125	1523	1614	849	-132	-3	-100	C
ATOM	862	CG2 VAL A 125	21.536	18.812	-1.942	1.00	10.90		C
ANISOU	862	CG2 VAL A 125	1460	1821	859	-359	-240	321	C
ATOM	863	N GLY A 126	20.173	16.497	-3.600	1.00	8.39		N
ANISOU	863	N GLY A 126	1191	1259	739	-11	121	-71	N
ATOM	864	CA GLY A 126	20.157	15.058	-3.393	1.00	8.41		C
ANISOU	864	CA GLY A 126	1052	1266	878	28	25	-126	C
ATOM	865	C GLY A 126	21.521	14.439	-3.579	1.00	7.92		C
ANISOU	865	C GLY A 126	986	1247	776	58	-229	-18	C
ATOM	866	O GLY A 126	22.535	15.106	-3.632	1.00	8.68		O
ANISOU	866	O GLY A 126	1052	1264	983	42	91	-49	O
ATOM	867	N HIS A 127	21.515	13.108	-3.621	1.00	9.59		N
ANISOU	867	N HIS A 127	1105	1232	1305	30	-47	-139	N
ATOM	868	CA HIS A 127	22.735	12.367	-3.792	1.00	9.16		C
ANISOU	868	CA HIS A 127	1291	1299	889	-73	231	-212	C
ATOM	869	C HIS A 127	22.492	11.135	-4.655	1.00	11.09		C
ANISOU	869	C HIS A 127	1404	1511	1298	62	173	64	C
ATOM	870	O HIS A 127	21.499	10.446	-4.464	1.00	11.45		O
ANISOU	870	O HIS A 127	1475	1617	1259	128	244	-21	O
ATOM	871	CB HIS A 127	23.321	11.966	-2.419	1.00	10.92		C
ANISOU	871	CB HIS A 127	1753	1479	919	-605	163	-150	C
ATOM	872	CG HIS A 127	22.310	11.380	-1.505	1.00	11.55		C
ANISOU	872	CG HIS A 127	1933	1938	519	92	-189	-104	C
ATOM	873	ND1 HIS A 127	22.137	10.034	-1.388	1.00	16.36		N
ANISOU	873	ND1 HIS A 127	2582	1999	1634	247	-119	-256	N
ATOM	874	CD2 HIS A 127	21.400	11.947	-0.677	1.00	13.45		C
ANISOU	874	CD2 HIS A 127	2150	2390	570	330	192	-87	C
ATOM	875	CE1 HIS A 127	21.165	9.782	-0.510	1.00	17.34		C
ANISOU	875	CE1 HIS A 127	2695	2554	1340	1005	-413	-300	C
ATOM	876	NE2 HIS A 127	20.692	10.928	-0.061	1.00	16.28		N
ANISOU	876	NE2 HIS A 127	1953	2975	1256	718	-41	-404	N
ATOM	877	N ASP A 128	23.444	10.946	-5.569	1.00	8.82		N
ANISOU	877	N ASP A 128	1194	925	1234	69	64	40	N
ATOM	878	CA ASP A 128	23.393	9.821	-6.470	1.00	10.08		C
ANISOU	878	CA ASP A 128	1791	731	1307	-33	-21	-89	C
ATOM	879	C ASP A 128	24.672	9.015	-6.386	1.00	10.84		C
ANISOU	879	C ASP A 128	1831	989	1298	-196	-184	224	C
ATOM	880	O ASP A 128	25.751	9.609	-6.324	1.00	11.02		O
ANISOU	880	O ASP A 128	1815	1120	1254	-188	29	-94	O
ATOM	881	CB ASP A 128	23.207	10.233	-7.930	1.00	9.70		C
ANISOU	881	CB ASP A 128	1255	1263	1169	-10	165	-76	C
ATOM	882	CG ASP A 128	21.846	10.800	-8.295	1.00	9.07		C
ANISOU	882	CG ASP A 128	1195	1121	1132	197	20	90	C
ATOM	883	OD1 ASP A 128	20.886	10.688	-7.511	1.00	10.55		O

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ANISOU	883	OD1 ASP A 128	1294	1497	1218	-115	195	231	O
ATOM	884	OD2 ASP A 128	21.737	11.364	-9.398	1.00	9.54		O
ANISOU	884	OD2 ASP A 128	1540	1003	1081	42	-35	100	O
ATOM	885	N THR A 129	24.522	7.692	-6.410	1.00	11.66		N
ANISOU	885	N THR A 129	1622	1019	1789	-279	334	-263	N
ATOM	886	CA THR A 129	25.663	6.808	-6.508	1.00	12.32		C
ANISOU	886	CA THR A 129	1806	1119	1756	-420	199	-64	C
ATOM	887	C THR A 129	25.643	6.127	-7.866	1.00	12.26		C
ANISOU	887	C THR A 129	1791	1015	1852	-35	379	-12	C
ATOM	888	O THR A 129	24.641	5.499	-8.214	1.00	13.82		O
ANISOU	888	O THR A 129	1783	1317	2152	39	446	164	O
ATOM	889	CB THR A 129	25.653	5.744	-5.391	1.00	16.06		C
ANISOU	889	CB THR A 129	2904	1230	1968	-914	379	-270	C
ATOM	890	OG1 THR A 129	25.493	6.334	-4.136	1.00	27.77		O
ANISOU	890	OG1 THR A 129	5721	3058	1771	-2233	428	-265	O
ATOM	891	CG2 THR A 129	27.018	5.066	-5.299	1.00	18.50		C
ANISOU	891	CG2 THR A 129	2635	2263	2131	-826	454	-1117	C
ATOM	892	N PHE A 130	26.720	6.259	-8.620	1.00	11.40		N
ANISOU	892	N PHE A 130	1572	1212	1550	-108	85	-92	N
ATOM	893	CA PHE A 130	26.818	5.636	-9.941	1.00	12.30		C
ANISOU	893	CA PHE A 130	1844	1110	1718	-72	333	-17	C
ATOM	894	C PHE A 130	27.758	4.434	-9.902	1.00	11.05		C
ANISOU	894	C PHE A 130	1322	890	1985	330	407	-32	C
ATOM	895	O PHE A 130	28.833	4.481	-9.334	1.00	13.47		O
ANISOU	895	O PHE A 130	1209	1346	2563	208	329	338	O
ATOM	896	CB PHE A 130	27.333	6.678	-10.912	1.00	11.75		C
ANISOU	896	CB PHE A 130	1866	1145	1453	8	124	4	C
ATOM	897	CG PHE A 130	26.405	7.838	-11.166	1.00	9.78		C
ANISOU	897	CG PHE A 130	1391	1049	1274	279	96	146	C
ATOM	898	CD1 PHE A 130	26.480	8.952	-10.374	1.00	10.27		C
ANISOU	898	CD1 PHE A 130	1805	998	1098	99	-338	7	C
ATOM	899	CD2 PHE A 130	25.482	7.802	-12.203	1.00	11.36		C
ANISOU	899	CD2 PHE A 130	1874	987	1457	87	-213	401	C
ATOM	900	CE1 PHE A 130	25.642	10.045	-10.577	1.00	9.22		C
ANISOU	900	CE1 PHE A 130	1484	963	1057	223	-109	-51	C
ATOM	901	CE2 PHE A 130	24.632	8.865	-12.393	1.00	10.87		C
ANISOU	901	CE2 PHE A 130	1719	999	1411	140	-128	270	C
ATOM	902	CZ PHE A 130	24.726	9.961	-11.578	1.00	9.51		C
ANISOU	902	CZ PHE A 130	1654	990	972	-62	-159	64	C
ATOM	903	N THR A 131	27.294	3.378	-10.544	1.00	13.21		N
ANISOU	903	N THR A 131	1672	1026	2319	228	236	223	N
ATOM	904	CA THR A 131	28.003	2.119	-10.697	1.00	12.87		C
ANISOU	904	CA THR A 131	2030	981	1878	69	340	-30	C
ATOM	905	C THR A 131	28.383	1.980	-12.158	1.00	12.46		C
ANISOU	905	C THR A 131	1703	1156	1874	-115	361	-300	C
ATOM	906	O THR A 131	27.541	2.185	-13.029	1.00	13.00		O
ANISOU	906	O THR A 131	1814	1181	1943	-71	241	-202	O
ATOM	907	CB THR A 131	27.090	0.973	-10.220	1.00	14.22		C
ANISOU	907	CB THR A 131	2067	1080	2254	-112	830	-225	C
ATOM	908	OG1 THR A 131	26.856	1.108	-8.818	1.00	17.28		O
ANISOU	908	OG1 THR A 131	2951	1286	2328	-269	1123	-147	O
ATOM	909	CG2 THR A 131	27.755	-0.369	-10.460	1.00	14.35		C
ANISOU	909	CG2 THR A 131	2306	971	2176	47	650	50	C
ATOM	910	N LYS A 132	29.652	1.636	-12.411	1.00	13.32		N
ANISOU	910	N LYS A 132	1645	1201	2216	32	318	-25	N
ATOM	911	CA LYS A 132	30.102	1.510	-13.775	1.00	13.59		C

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ANISOU	911	CA	LYS A 132	1564	1211	2389	-60	466	43	C
ATOM	912	C	LYS A 132	29.673	0.149	-14.348	1.00	12.82		C
ANISOU	912	C	LYS A 132	1637	1162	2073	76	361	-179	C
ATOM	913	O	LYS A 132	29.735	-0.904	-13.726	1.00	14.37		O
ANISOU	913	O	LYS A 132	2024	1210	2226	103	78	-203	O
ATOM	914	CB	LYS A 132	31.623	1.661	-13.868	1.00	14.26		C
ANISOU	914	CB	LYS A 132	1541	1789	2086	107	188	129	C
ATOM	915	CG	LYS A 132	32.111	1.817	-15.297	1.00	15.32		C
ANISOU	915	CG	LYS A 132	1786	1639	2396	188	480	-420	C
ATOM	916	CD	LYS A 132	33.621	1.995	-15.225	1.00	16.42		C
ANISOU	916	CD	LYS A 132	1782	1761	2697	161	500	-310	C
ATOM	917	CE	LYS A 132	34.090	2.484	-16.563	1.00	19.36		C
ANISOU	917	CE	LYS A 132	2202	2887	2268	1049	679	489	C
ATOM	918	NZ	LYS A 132	35.552	2.591	-16.602	1.00	22.30		N
ANISOU	918	NZ	LYS A 132	2191	3408	2876	909	1018	940	N
ATOM	919	N	VAL A 133	29.197	0.161	-15.577	1.00	12.83		N
ANISOU	919	N	VAL A 133	1607	1328	1939	20	568	-219	N
ATOM	920	CA	VAL A 133	28.793	-1.090	-16.178	1.00	15.76		C
ANISOU	920	CA	VAL A 133	2270	1670	2049	221	563	137	C
ATOM	921	C	VAL A 133	29.954	-1.452	-17.091	1.00	27.71		C
ANISOU	921	C	VAL A 133	3707	1915	4904	163	2332	975	C
ATOM	922	O	VAL A 133	30.493	-0.615	-17.820	1.00	30.02		O
ANISOU	922	O	VAL A 133	4275	3065	4065	-49	2934	801	O
ATOM	923	CB	VAL A 133	27.364	-1.013	-16.707	1.00	22.02		C
ANISOU	923	CB	VAL A 133	2990	2507	2870	-244	-540	1152	C
ATOM	924	CG1	VAL A 133	26.437	-1.126	-15.467	1.00	28.46		C
ANISOU	924	CG1	VAL A 133	1687	5377	3751	31	-183	2789	C
ATOM	925	CG2	VAL A 133	26.966	0.244	-17.421	1.00	34.99		C
ANISOU	925	CG2	VAL A 133	6175	2664	4456	-1452	-2763	1585	C
ATOM	926	N	LYS A 134	30.371	-2.709	-16.900	1.00	40.30		N
ANISOU	926	N	LYS A 134	5780	1539	7994	-195	3074	1681	N
ATOM	927	CA	LYS A 134	31.716	-3.061	-17.369	1.00	46.82		C
ANISOU	927	CA	LYS A 134	6243	1762	9785	-680	3495	2587	C
ATOM	928	C	LYS A 134	32.750	-2.011	-16.967	1.00	53.30		C
ANISOU	928	C	LYS A 134	6247	3081	10923	727	3313	732	C
ATOM	929	O	LYS A 134	33.067	-1.002	-17.621	1.00	66.03		O
ANISOU	929	O	LYS A 134	7726	6876	10485	3192	1406	-1577	O
ATOM	930	CB	LYS A 134	31.663	-3.356	-18.869	1.00	54.20		C
ANISOU	930	CB	LYS A 134	8362	2776	9457	-1089	4566	2109	C
ATOM	931	CG	LYS A 134	31.848	-2.246	-19.879	1.00	59.86		C
ANISOU	931	CG	LYS A 134	8439	3507	10799	-2265	4344	807	C
ATOM	932	CD	LYS A 134	33.321	-2.075	-20.211	1.00	61.71		C
ANISOU	932	CD	LYS A 134	8587	3449	11413	-2550	4716	-1005	C
ATOM	933	CE	LYS A 134	33.548	-1.048	-21.290	1.00	66.19		C
ANISOU	933	CE	LYS A 134	9239	3310	12599	-2633	4014	-1755	C
ATOM	934	NZ	LYS A 134	33.188	0.338	-20.811	1.00	80.88		N
ANISOU	934	NZ	LYS A 134	12146	3508	15078	-3471	3550	-1270	N
TER	935		LYS A 134							
ATOM	936	N	GLY B 16	23.238	39.620	-21.522	1.00	27.91		N
ANISOU	936	N	GLY B 16	3243	2924	4437	-1721	-508	-1	N
ATOM	937	CA	GLY B 16	23.146	38.171	-21.507	1.00	21.40		C
ANISOU	937	CA	GLY B 16	1791	2879	3462	-1656	-781	707	C
ATOM	938	C	GLY B 16	24.066	37.503	-20.501	1.00	16.39		C
ANISOU	938	C	GLY B 16	1773	2255	2198	-624	-247	338	C
ATOM	939	O	GLY B 16	24.705	38.118	-19.661	1.00	17.97		O
ANISOU	939	O	GLY B 16	2691	2011	2127	167	-440	-290	O

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ATOM	940	N	ILE	B	17	24.151	36.178	-20.586	1.00	15.23	N
ANISOU	940	N	ILE	B	17	1690	2132	1964	-434	-7	150
ATOM	941	CA	ILE	B	17	25.049	35.446	-19.688	1.00	13.96	C
ANISOU	941	CA	ILE	B	17	1675	1936	1692	-90	9	119
ATOM	942	C	ILE	B	17	26.508	35.654	-20.065	1.00	12.21	C
ANISOU	942	C	ILE	B	17	1689	1670	1281	-127	-178	-86
ATOM	943	O	ILE	B	17	27.421	35.690	-19.229	1.00	13.18	O
ANISOU	943	O	ILE	B	17	1818	1972	1219	91	-255	35
ATOM	944	CB	ILE	B	17	24.680	33.943	-19.672	1.00	13.67	C
ANISOU	944	CB	ILE	B	17	1491	1904	1800	-156	64	220
ATOM	945	CG1	ILE	B	17	23.328	33.653	-19.015	1.00	14.83	C
ANISOU	945	CG1	ILE	B	17	1805	1797	2031	47	380	636
ATOM	946	CG2	ILE	B	17	25.769	33.106	-19.033	1.00	17.14	C
ANISOU	946	CG2	ILE	B	17	1914	2608	1988	-219	237	-1017
ATOM	947	CD1	ILE	B	17	22.709	32.302	-19.287	1.00	16.75	C
ANISOU	947	CD1	ILE	B	17	2731	1807	1826	453	540	393
ATOM	948	N	THR	B	18	26.779	35.760	-21.367	1.00	12.70	N
ANISOU	948	N	THR	B	18	1674	1974	1176	-30	-240	93
ATOM	949	CA	THR	B	18	28.163	35.949	-21.780	1.00	12.26	C
ANISOU	949	CA	THR	B	18	1707	1632	1320	12	-247	-389
ATOM	950	C	THR	B	18	28.742	37.209	-21.168	1.00	12.50	C
ANISOU	950	C	THR	B	18	1775	1408	1566	-77	-239	-447
ATOM	951	O	THR	B	18	28.133	38.258	-21.223	1.00	14.27	O
ANISOU	951	O	THR	B	18	1967	1734	1720	-376	-340	-183
ATOM	952	CB	THR	B	18	28.254	36.062	-23.298	1.00	12.36	C
ANISOU	952	CB	THR	B	18	1980	1368	1347	-114	-166	-597
ATOM	953	OG1	THR	B	18	27.863	34.796	-23.847	1.00	14.23	O
ANISOU	953	OG1	THR	B	18	2285	1697	1425	-83	-285	-276
ATOM	954	CG2	THR	B	18	29.696	36.369	-23.760	1.00	14.34	C
ANISOU	954	CG2	THR	B	18	2126	1772	1550	-102	27	-575
ATOM	955	N	GLY	B	19	29.928	37.082	-20.571	1.00	12.11	N
ANISOU	955	N	GLY	B	19	1724	1474	1403	-202	-180	-22
ATOM	956	CA	GLY	B	19	30.544	38.259	-20.007	1.00	13.13	C
ANISOU	956	CA	GLY	B	19	2147	1657	1185	263	-95	-301
ATOM	957	C	GLY	B	19	31.474	37.869	-18.864	1.00	10.76	C
ANISOU	957	C	GLY	B	19	1509	1384	1196	14	138	-79
ATOM	958	O	GLY	B	19	31.758	36.707	-18.684	1.00	12.69	O
ANISOU	958	O	GLY	B	19	1868	1360	1594	-149	91	41
ATOM	959	N	THR	B	20	31.921	38.895	-18.166	1.00	11.17	N
ANISOU	959	N	THR	B	20	1633	1283	1328	-90	-36	-122
ATOM	960	CA	THR	B	20	32.803	38.799	-17.014	1.00	10.55	C
ANISOU	960	CA	THR	B	20	1663	1296	1048	16	117	-200
ATOM	961	C	THR	B	20	31.981	39.171	-15.789	1.00	10.33	C
ANISOU	961	C	THR	B	20	1445	1180	1300	-62	118	-187
ATOM	962	O	THR	B	20	31.403	40.251	-15.678	1.00	13.41	O
ANISOU	962	O	THR	B	20	1978	1312	1806	-321	225	-132
ATOM	963	CB	THR	B	20	34.021	39.706	-17.165	1.00	12.41	C
ANISOU	963	CB	THR	B	20	1504	1888	1323	83	72	-316
ATOM	964	OG1	THR	B	20	34.772	39.227	-18.282	1.00	14.16	O
ANISOU	964	OG1	THR	B	20	1683	2014	1684	157	387	-205
ATOM	965	CG2	THR	B	20	34.955	39.691	-15.947	1.00	13.10	C
ANISOU	965	CG2	THR	B	20	1404	1798	1776	-381	-164	-50
ATOM	966	N	TRP	B	21	31.936	38.195	-14.865	1.00	10.33	N
ANISOU	966	N	TRP	B	21	1315	1449	1163	87	66	-309
ATOM	967	CA	TRP	B	21	31.156	38.247	-13.659	1.00	10.30	C
ANISOU	967	CA	TRP	B	21	1097	1680	1135	187	-53	-34

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ATOM	968	C	TRP	B	21	32.066	38.169	-12.433	1.00	9.99	C	
ANISOU	968	C	TRP	B	21	1248	1354	1192	-36	-121	70	C
ATOM	969	O	TRP	B	21	33.133	37.594	-12.502	1.00	11.74	O	
ANISOU	969	O	TRP	B	21	1517	1519	1424	-416	-142	13	O
ATOM	970	CB	TRP	B	21	30.208	37.038	-13.635	1.00	11.51	C	
ANISOU	970	CB	TRP	B	21	1418	1841	1114	431	-76	-246	C
ATOM	971	CG	TRP	B	21	29.173	37.000	-14.713	1.00	10.96	C	
ANISOU	971	CG	TRP	B	21	1314	1559	1291	79	-88	419	C
ATOM	972	CD1	TRP	B	21	29.361	36.484	-15.994	1.00	11.33	C	
ANISOU	972	CD1	TRP	B	21	1580	1759	967	-300	-39	-118	C
ATOM	973	CD2	TRP	B	21	27.823	37.473	-14.647	1.00	11.32	C	
ANISOU	973	CD2	TRP	B	21	1518	1722	1063	-167	49	-105	C
ATOM	974	NE1	TRP	B	21	28.184	36.614	-16.711	1.00	11.66	N	
ANISOU	974	NE1	TRP	B	21	1468	1947	1017	-34	-28	-82	N
ATOM	975	CE2	TRP	B	21	27.240	37.220	-15.890	1.00	12.72	C	
ANISOU	975	CE2	TRP	B	21	1426	2148	1259	-115	-87	52	C
ATOM	976	CE3	TRP	B	21	27.022	38.082	-13.665	1.00	11.26	C	
ANISOU	976	CE3	TRP	B	21	1282	1831	1165	-31	141	-168	C
ATOM	977	CZ2	TRP	B	21	25.920	37.553	-16.196	1.00	11.97	C	
ANISOU	977	CZ2	TRP	B	21	1479	1387	1682	-134	-186	101	C
ATOM	978	CZ3	TRP	B	21	25.721	38.403	-13.973	1.00	11.66	C	
ANISOU	978	CZ3	TRP	B	21	1321	1825	1286	-13	56	-365	C
ATOM	979	CH2	TRP	B	21	25.182	38.133	-15.223	1.00	13.68	C	
ANISOU	979	CH2	TRP	B	21	1863	1821	1512	-674	-304	-27	C
ATOM	980	N	TYR	B	22	31.555	38.704	-11.333	1.00	11.20	N	
ANISOU	980	N	TYR	B	22	1583	1518	1156	-183	-66	3	N
ATOM	981	CA	TYR	B	22	32.289	38.725	-10.083	1.00	10.34	C	
ANISOU	981	CA	TYR	B	22	1522	1194	1212	17	-151	88	C
ATOM	982	C	TYR	B	22	31.329	38.335	-8.978	1.00	9.68	C	
ANISOU	982	C	TYR	B	22	1437	1127	1113	73	-206	144	C
ATOM	983	O	TYR	B	22	30.190	38.769	-9.038	1.00	11.28	O	
ANISOU	983	O	TYR	B	22	1417	1286	1584	107	-157	-341	O
ATOM	984	CB	TYR	B	22	32.844	40.109	-9.810	1.00	11.91	C	
ANISOU	984	CB	TYR	B	22	2162	1131	1231	124	204	59	C
ATOM	985	CG	TYR	B	22	33.701	40.671	-10.916	1.00	11.96	C	
ANISOU	985	CG	TYR	B	22	2047	1277	1219	77	158	14	C
ATOM	986	CD1	TYR	B	22	33.094	41.455	-11.884	1.00	12.23	C	
ANISOU	986	CD1	TYR	B	22	1975	1120	1552	221	153	-204	C
ATOM	987	CD2	TYR	B	22	35.065	40.456	-10.989	1.00	13.80	C	
ANISOU	987	CD2	TYR	B	22	1947	1507	1790	310	42	-410	C
ATOM	988	CE1	TYR	B	22	33.809	41.990	-12.900	1.00	14.14	C	
ANISOU	988	CE1	TYR	B	22	2343	1174	1854	97	493	-401	C
ATOM	989	CE2	TYR	B	22	35.832	40.989	-12.018	1.00	13.99	C	
ANISOU	989	CE2	TYR	B	22	2183	1444	1688	387	219	-172	C
ATOM	990	CZ	TYR	B	22	35.164	41.747	-12.951	1.00	13.66	C	
ANISOU	990	CZ	TYR	B	22	2164	1291	1737	565	257	-292	C
ATOM	991	OH	TYR	B	22	35.905	42.298	-13.976	1.00	17.83	O	
ANISOU	991	OH	TYR	B	22	2411	2282	2082	205	582	-743	O
ATOM	992	N	ASN	B	23	31.822	37.544	-8.029	1.00	10.28	N	
ANISOU	992	N	ASN	B	23	1272	1481	1153	-220	-19	81	N
ATOM	993	CA	ASN	B	23	30.900	37.199	-6.923	1.00	10.18	C	
ANISOU	993	CA	ASN	B	23	1205	1503	1158	-222	-25	8	C
ATOM	994	C	ASN	B	23	31.238	38.055	-5.690	1.00	10.70	C	
ANISOU	994	C	ASN	B	23	1783	1258	1023	-13	-85	-191	C
ATOM	995	O	ASN	B	23	32.116	38.924	-5.713	1.00	12.23	O	
ANISOU	995	O	ASN	B	23	1592	1662	1391	133	88	36	O

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ATOM	996	CB	ASN	B	23	30.887	35.703	-6.696	1.00	10.55	C
ANISOU	996	CB	ASN	B	23	1420	1461	1128	-27	-152	98
ATOM	997	CG	ASN	B	23	32.087	35.025	-6.167	1.00	11.14	C
ANISOU	997	CG	ASN	B	23	1404	1505	1325	-75	72	-297
ATOM	998	OD1	ASN	B	23	32.289	33.789	-6.059	1.00	12.56	O
ANISOU	998	OD1	ASN	B	23	1874	1411	1486	-93	-55	-42
ATOM	999	ND2	ASN	B	23	33.058	35.798	-5.748	1.00	8.38	N
ANISOU	999	ND2	ASN	B	23	1204	1115	866	-381	135	-334
ATOM	1000	N	GLN	B	24	30.618	37.705	-4.582	1.00	11.57	N
ANISOU	1000	N	GLN	B	24	2022	1321	1053	146	-16	-101
ATOM	1001	CA	GLN	B	24	30.756	38.463	-3.326	1.00	11.93	C
ANISOU	1001	CA	GLN	B	24	2141	1233	1158	164	64	51
ATOM	1002	C	GLN	B	24	32.121	38.259	-2.694	1.00	12.41	C
ANISOU	1002	C	GLN	B	24	2281	1385	1048	202	-56	43
ATOM	1003	O	GLN	B	24	32.481	39.044	-1.817	1.00	14.55	O
ANISOU	1003	O	GLN	B	24	2111	1933	1483	333	123	507
ATOM	1004	CB	GLN	B	24	29.650	38.080	-2.339	1.00	14.69	C
ANISOU	1004	CB	GLN	B	24	2398	1575	1607	-282	598	22
ATOM	1005	CG	GLN	B	24	29.721	36.683	-1.727	1.00	12.50	C
ANISOU	1005	CG	GLN	B	24	1896	1787	1067	139	228	-84
ATOM	1006	CD	GLN	B	24	29.534	35.519	-2.665	1.00	11.40	C
ANISOU	1006	CD	GLN	B	24	1626	1585	1122	464	102	-287
ATOM	1007	OE1	GLN	B	24	29.053	35.602	-3.783	1.00	12.42	O
ANISOU	1007	OE1	GLN	B	24	1704	1674	1340	201	-233	-136
ATOM	1008	NE2	GLN	B	24	29.935	34.347	-2.159	1.00	12.39	N
ANISOU	1008	NE2	GLN	B	24	1687	1783	1237	58	-28	-132
ATOM	1009	N	LEU	B	25	32.864	37.238	-3.087	1.00	11.81	N
ANISOU	1009	N	LEU	B	25	1592	1576	1320	493	-35	321
ATOM	1010	CA	LEU	B	25	34.218	37.024	-2.613	1.00	12.85	C
ANISOU	1010	CA	LEU	B	25	1683	2107	1094	494	-156	287
ATOM	1011	C	LEU	B	25	35.273	37.723	-3.463	1.00	12.92	C
ANISOU	1011	C	LEU	B	25	1514	2114	1279	231	83	401
ATOM	1012	O	LEU	B	25	36.469	37.761	-3.087	1.00	15.70	O
ANISOU	1012	O	LEU	B	25	1525	2531	1908	247	19	258
ATOM	1013	CB	LEU	B	25	34.555	35.527	-2.614	1.00	13.58	C
ANISOU	1013	CB	LEU	B	25	1406	2245	1508	280	-57	186
ATOM	1014	CG	LEU	B	25	33.593	34.667	-1.803	1.00	13.62	C
ANISOU	1014	CG	LEU	B	25	1672	2104	1401	264	-198	-35
ATOM	1015	CD1	LEU	B	25	33.849	33.201	-2.094	1.00	15.24	C
ANISOU	1015	CD1	LEU	B	25	2078	2136	1576	-313	59	-431
ATOM	1016	CD2	LEU	B	25	33.741	35.080	-0.352	1.00	27.72	C
ANISOU	1016	CD2	LEU	B	25	4500	4436	1597	2001	827	899
ATOM	1017	N	GLY	B	26	34.866	38.260	-4.614	1.00	12.70	N
ANISOU	1017	N	GLY	B	26	1713	1750	1361	217	215	271
ATOM	1018	CA	GLY	B	26	35.774	38.891	-5.560	1.00	13.21	C
ANISOU	1018	CA	GLY	B	26	1992	1724	1305	716	168	608
ATOM	1019	C	GLY	B	26	36.426	38.002	-6.579	1.00	11.16	C
ANISOU	1019	C	GLY	B	26	1600	1539	1100	438	-29	345
ATOM	1020	O	GLY	B	26	37.371	38.371	-7.279	1.00	15.54	O
ANISOU	1020	O	GLY	B	26	1956	1833	2116	449	614	208
ATOM	1021	N	SER	B	27	35.892	36.789	-6.716	1.00	11.59	N
ANISOU	1021	N	SER	B	27	1833	1452	1119	276	320	279
ATOM	1022	CA	SER	B	27	36.229	35.817	-7.731	1.00	9.33	C
ANISOU	1022	CA	SER	B	27	1211	1303	1031	127	135	184
ATOM	1023	C	SER	B	27	35.702	36.305	-9.069	1.00	9.95	C
ANISOU	1023	C	SER	B	27	1109	1616	1054	109	115	62

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ATOM	1024	O	SER	B	27	34.691	36.991	-9.128	1.00	11.40		O
ANISOU	1024	O	SER	B	27	1219	1916	1197	-45	244	-11	O
ATOM	1025	CB	SER	B	27	35.645	34.433	-7.427	1.00	9.66		C
ANISOU	1025	CB	SER	B	27	1192	1373	1107	167	-137	116	C
ATOM	1026	OG	SER	B	27	36.182	33.998	-6.180	1.00	10.41		O
ANISOU	1026	OG	SER	B	27	1410	1441	1106	105	-215	57	O
ATOM	1027	N	THR	B	28	36.450	35.935	-10.115	1.00	9.23		N
ANISOU	1027	N	THR	B	28	1254	1253	997	133	22	214	N
ATOM	1028	CA	THR	B	28	36.136	36.351	-11.453	1.00	10.29		C
ANISOU	1028	CA	THR	B	28	1271	1646	993	112	-36	176	C
ATOM	1029	C	THR	B	28	35.746	35.181	-12.331	1.00	10.07		C
ANISOU	1029	C	THR	B	28	1402	1456	967	96	-85	73	C
ATOM	1030	O	THR	B	28	36.530	34.265	-12.477	1.00	10.55		O
ANISOU	1030	O	THR	B	28	1456	1469	1082	24	-107	-53	O
ATOM	1031	CB	THR	B	28	37.371	37.034	-12.079	1.00	11.08		C
ANISOU	1031	CB	THR	B	28	1489	1595	1125	228	-35	-62	C
ATOM	1032	OG1	THR	B	28	37.767	38.133	-11.249	1.00	12.47		O
ANISOU	1032	OG1	THR	B	28	1673	1793	1274	373	-100	-2	O
ATOM	1033	CG2	THR	B	28	36.999	37.566	-13.435	1.00	13.92		C
ANISOU	1033	CG2	THR	B	28	2674	1499	1116	222	-91	-108	C
ATOM	1034	N	PHE	B	29	34.577	35.260	-12.934	1.00	9.57		N
ANISOU	1034	N	PHE	B	29	1233	1316	1089	155	53	122	N
ATOM	1035	CA	PHE	B	29	33.965	34.219	-13.726	1.00	9.17		C
ANISOU	1035	CA	PHE	B	29	1283	1206	994	195	-2	-76	C
ATOM	1036	C	PHE	B	29	33.731	34.795	-15.120	1.00	9.53		C
ANISOU	1036	C	PHE	B	29	1598	1127	897	-25	97	26	C
ATOM	1037	O	PHE	B	29	32.902	35.681	-15.307	1.00	10.47		O
ANISOU	1037	O	PHE	B	29	1642	1298	1037	-213	-28	59	O
ATOM	1038	CB	PHE	B	29	32.652	33.861	-13.059	1.00	10.22		C
ANISOU	1038	CB	PHE	B	29	1462	1474	948	366	157	111	C
ATOM	1039	CG	PHE	B	29	31.691	32.988	-13.829	1.00	9.56		C
ANISOU	1039	CG	PHE	B	29	1296	1294	1044	178	30	-42	C
ATOM	1040	CD1	PHE	B	29	32.112	31.912	-14.583	1.00	10.53		C
ANISOU	1040	CD1	PHE	B	29	1695	1484	822	-102	-403	97	C
ATOM	1041	CD2	PHE	B	29	30.342	33.252	-13.796	1.00	11.42		C
ANISOU	1041	CD2	PHE	B	29	1272	1886	1181	165	83	-65	C
ATOM	1042	CE1	PHE	B	29	31.191	31.117	-15.249	1.00	10.35		C
ANISOU	1042	CE1	PHE	B	29	1431	1527	974	-245	-479	97	C
ATOM	1043	CE2	PHE	B	29	29.434	32.474	-14.435	1.00	10.63		C
ANISOU	1043	CE2	PHE	B	29	1306	1521	1213	-96	-179	-96	C
ATOM	1044	CZ	PHE	B	29	29.862	31.388	-15.165	1.00	10.69		C
ANISOU	1044	CZ	PHE	B	29	1452	1463	1146	-322	-231	-267	C
ATOM	1045	N	ILE	B	30	34.520	34.298	-16.065	1.00	9.30		N
ANISOU	1045	N	ILE	B	30	1502	1054	976	-127	3	18	N
ATOM	1046	CA	ILE	B	30	34.494	34.764	-17.430	1.00	10.13		C
ANISOU	1046	CA	ILE	B	30	1587	1303	957	145	115	-69	C
ATOM	1047	C	ILE	B	30	33.925	33.645	-18.295	1.00	10.54		C
ANISOU	1047	C	ILE	B	30	1763	1239	1001	43	-280	-175	C
ATOM	1048	O	ILE	B	30	34.429	32.528	-18.302	1.00	11.07		O
ANISOU	1048	O	ILE	B	30	1722	1420	1063	-221	-32	-51	O
ATOM	1049	CB	ILE	B	30	35.873	35.168	-17.957	1.00	9.79		C
ANISOU	1049	CB	ILE	B	30	1307	1617	794	-103	13	177	C
ATOM	1050	CG1	ILE	B	30	36.636	36.146	-17.067	1.00	12.45		C
ANISOU	1050	CG1	ILE	B	30	1713	1789	1227	347	-108	29	C
ATOM	1051	CG2	ILE	B	30	35.715	35.793	-19.339	1.00	13.03		C
ANISOU	1051	CG2	ILE	B	30	1968	2288	693	-26	445	2	C

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ATOM	1052	CD1	ILE	B	30	38.077	36.427	-17.469	1.00	14.35	C	
ANISOU	1052	CD1	ILE	B	30	1938	2251	1265	747	92	-20	C
ATOM	1053	N	VAL	B	31	32.808	33.975	-18.938	1.00	10.72	N	
ANISOU	1053	N	VAL	B	31	1562	1351	1159	58	-153	-364	N
ATOM	1054	CA	VAL	B	31	32.074	32.862	-19.578	1.00	11.76	C	
ANISOU	1054	CA	VAL	B	31	1699	1666	1104	175	-182	-134	C
ATOM	1055	C	VAL	B	31	31.490	33.306	-20.910	1.00	11.76	C	
ANISOU	1055	C	VAL	B	31	1764	1674	1032	-31	-61	-134	C
ATOM	1056	O	VAL	B	31	31.131	34.464	-21.115	1.00	11.43	O	
ANISOU	1056	O	VAL	B	31	1627	1609	1107	3	-196	59	O
ATOM	1057	CB	VAL	B	31	30.943	32.364	-18.662	1.00	11.46	C	
ANISOU	1057	CB	VAL	B	31	1723	1394	1238	98	-190	-371	C
ATOM	1058	CG1	VAL	B	31	29.875	33.442	-18.530	1.00	15.15	C	
ANISOU	1058	CG1	VAL	B	31	1657	2273	1828	-307	-131	-708	C
ATOM	1059	CG2	VAL	B	31	30.328	31.049	-19.122	1.00	14.65	C	
ANISOU	1059	CG2	VAL	B	31	2493	2221	852	857	51	-45	C
ATOM	1060	N	THR	B	32	31.370	32.358	-21.804	1.00	10.14	N	
ANISOU	1060	N	THR	B	32	1359	1417	1075	-54	-209	-249	N
ATOM	1061	CA	THR	B	32	30.652	32.466	-23.055	1.00	11.32	C	
ANISOU	1061	CA	THR	B	32	1437	1570	1296	-202	-385	-166	C
ATOM	1062	C	THR	B	32	29.510	31.450	-23.080	1.00	11.04	C	
ANISOU	1062	C	THR	B	32	1486	1503	1204	-187	-273	3	C
ATOM	1063	O	THR	B	32	29.735	30.280	-22.788	1.00	13.38	O	
ANISOU	1063	O	THR	B	32	1784	1642	1656	-123	-457	-494	O
ATOM	1064	CB	THR	B	32	31.554	32.216	-24.263	1.00	15.28	C	
ANISOU	1064	CB	THR	B	32	2458	2320	1027	549	54	-289	C
ATOM	1065	OG1	THR	B	32	32.560	33.232	-24.283	1.00	16.05	O	
ANISOU	1065	OG1	THR	B	32	2196	1871	2030	196	157	-209	O
ATOM	1066	CG2	THR	B	32	30.717	32.320	-25.540	1.00	18.19	C	
ANISOU	1066	CG2	THR	B	32	2291	3357	1265	421	-35	-748	C
ATOM	1067	N	ALA	B	33	28.323	31.973	-23.387	1.00	11.51	N	
ANISOU	1067	N	ALA	B	33	1377	1517	1477	-94	-234	-56	N
ATOM	1068	CA	ALA	B	33	27.129	31.177	-23.511	1.00	11.05	C	
ANISOU	1068	CA	ALA	B	33	1504	1616	1077	176	-27	-140	C
ATOM	1069	C	ALA	B	33	26.919	30.919	-25.013	1.00	10.71	C	
ANISOU	1069	C	ALA	B	33	1335	1648	1088	292	28	-236	C
ATOM	1070	O	ALA	B	33	26.663	31.857	-25.785	1.00	15.00	O	
ANISOU	1070	O	ALA	B	33	2599	1691	1409	294	-457	-410	O
ATOM	1071	CB	ALA	B	33	25.937	31.869	-22.909	1.00	12.75	C	
ANISOU	1071	CB	ALA	B	33	1636	1785	1424	408	356	-49	C
ATOM	1072	N	GLY	B	34	27.078	29.647	-25.341	1.00	11.20	N	
ANISOU	1072	N	GLY	B	34	1600	1720	937	47	-341	-158	N
ATOM	1073	CA	GLY	B	34	26.879	29.203	-26.735	1.00	12.49	C	
ANISOU	1073	CA	GLY	B	34	1555	2243	948	420	-205	-47	C
ATOM	1074	C	GLY	B	34	25.413	29.177	-27.066	1.00	11.34	C	
ANISOU	1074	C	GLY	B	34	1502	2048	760	254	-132	-38	C
ATOM	1075	O	GLY	B	34	24.622	29.009	-26.131	1.00	12.55	O	
ANISOU	1075	O	GLY	B	34	1613	2339	818	69	-66	-251	O
ATOM	1076	N	ALA	B	35	25.070	29.307	-28.342	1.00	13.20	N	
ANISOU	1076	N	ALA	B	35	1555	2679	782	-236	-60	-301	N
ATOM	1077	CA	ALA	B	35	23.660	29.439	-28.681	1.00	13.57	C	
ANISOU	1077	CA	ALA	B	35	1648	2641	869	-177	-175	-400	C
ATOM	1078	C	ALA	B	35	22.796	28.249	-28.293	1.00	14.96	C	
ANISOU	1078	C	ALA	B	35	1743	2839	1101	27	-554	-654	C
ATOM	1079	O	ALA	B	35	21.592	28.409	-28.084	1.00	14.66	O	
ANISOU	1079	O	ALA	B	35	1823	2387	1358	240	-345	87	O

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ATOM 1080	CB	ALA	B	35	23.526	29.696	-30.188	1.00	22.17	C	
ANISOU 1080	CB	ALA	B	35	1888	5332	1203	-721	-55	-1680	C
ATOM 1081	N	ASP	B	36	23.383	27.064	-28.234	1.00	13.87	N	
ANISOU 1081	N	ASP	B	36	1627	2689	953	210	-516	-457	N
ATOM 1082	CA	ASP	B	36	22.603	25.874	-27.957	1.00	15.21	C	
ANISOU 1082	CA	ASP	B	36	1903	2771	1106	478	-465	-176	C
ATOM 1083	C	ASP	B	36	22.744	25.325	-26.555	1.00	14.67	C	
ANISOU 1083	C	ASP	B	36	1852	2698	1025	891	-211	-164	C
ATOM 1084	O	ASP	B	36	22.368	24.170	-26.345	1.00	20.11	O	
ANISOU 1084	O	ASP	B	36	3635	2459	1547	987	-603	-197	O
ATOM 1085	CB	ASP	B	36	22.954	24.725	-28.930	1.00	23.15	C	
ANISOU 1085	CB	ASP	B	36	3730	3666	1401	1122	-403	810	C
ATOM 1086	CG	ASP	B	36	21.980	24.890	-30.095	1.00	31.73	C	
ANISOU 1086	CG	ASP	B	36	4150	5546	2360	762	-1204	1477	C
ATOM 1087	OD1	ASP	B	36	22.566	24.958	-31.171	1.00	46.37	O	
ANISOU 1087	OD1	ASP	B	36	8462	7459	1696	2748	-1018	-479	O
ATOM 1088	OD2	ASP	B	36	20.760	24.955	-29.836	1.00	50.29	O	
ANISOU 1088	OD2	ASP	B	36	3854	7495	7759	-783	-1808	4822	O
ATOM 1089	N	GLY	B	37	23.293	26.112	-25.635	1.00	13.08	N	
ANISOU 1089	N	GLY	B	37	1908	2000	1061	204	-485	-260	N
ATOM 1090	CA	GLY	B	37	23.278	25.651	-24.256	1.00	11.20	C	
ANISOU 1090	CA	GLY	B	37	1605	1636	1015	-238	-425	-201	C
ATOM 1091	C	GLY	B	37	24.632	25.489	-23.611	1.00	12.14	C	
ANISOU 1091	C	GLY	B	37	1507	1988	1119	231	-418	-258	C
ATOM 1092	O	GLY	B	37	24.704	25.194	-22.423	1.00	10.55	O	
ANISOU 1092	O	GLY	B	37	1416	1602	992	-73	-360	-47	O
ATOM 1093	N	ALA	B	38	25.734	25.643	-24.312	1.00	10.59	N	
ANISOU 1093	N	ALA	B	38	1589	1566	869	42	-357	70	N
ATOM 1094	CA	ALA	B	38	27.029	25.472	-23.672	1.00	10.96	C	
ANISOU 1094	CA	ALA	B	38	1494	1854	817	-68	-220	329	C
ATOM 1095	C	ALA	B	38	27.453	26.712	-22.882	1.00	9.61	C	
ANISOU 1095	C	ALA	B	38	1404	1577	670	249	-92	-69	C
ATOM 1096	O	ALA	B	38	27.195	27.848	-23.238	1.00	11.55	O	
ANISOU 1096	O	ALA	B	38	1738	1635	1018	398	-220	-395	O
ATOM 1097	CB	ALA	B	38	28.120	25.167	-24.695	1.00	13.08	C	
ANISOU 1097	CB	ALA	B	38	1574	2588	808	371	-71	485	C
ATOM 1098	N	LEU	B	39	28.146	26.420	-21.784	1.00	10.24	N	
ANISOU 1098	N	LEU	B	39	1484	1596	812	368	-262	-164	N
ATOM 1099	CA	LEU	B	39	28.841	27.415	-21.034	1.00	9.69	C	
ANISOU 1099	CA	LEU	B	39	1248	1621	811	225	-3	108	C
ATOM 1100	C	LEU	B	39	30.333	27.024	-21.071	1.00	9.34	C	
ANISOU 1100	C	LEU	B	39	1294	1429	825	150	14	145	C
ATOM 1101	O	LEU	B	39	30.672	25.881	-20.752	1.00	11.00	O	
ANISOU 1101	O	LEU	B	39	1422	1528	1229	194	-22	-141	O
ATOM 1102	CB	LEU	B	39	28.430	27.543	-19.566	1.00	9.69	C	
ANISOU 1102	CB	LEU	B	39	1409	1380	895	305	193	-22	C
ATOM 1103	CG	LEU	B	39	27.000	27.997	-19.291	1.00	10.55	C	
ANISOU 1103	CG	LEU	B	39	1383	1857	768	179	190	-280	C
ATOM 1104	CD1	LEU	B	39	26.729	28.140	-17.804	1.00	11.30	C	
ANISOU 1104	CD1	LEU	B	39	1398	2175	720	253	93	0	C
ATOM 1105	CD2	LEU	B	39	26.693	29.351	-19.947	1.00	11.68	C	
ANISOU 1105	CD2	LEU	B	39	1470	1844	1123	211	-308	-231	C
ATOM 1106	N	THR	B	40	31.184	27.954	-21.437	1.00	9.83	N	
ANISOU 1106	N	THR	B	40	1250	1466	1019	49	75	-174	N
ATOM 1107	CA	THR	B	40	32.615	27.705	-21.540	1.00	9.95	C	
ANISOU 1107	CA	THR	B	40	1279	1302	1199	25	-63	-487	C

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ATOM 1108 C THR B 40	33.357	28.946	-21.051	1.00	9.72		C
ANISOU 1108 C THR B 40	1014	1357	1323	-166	131	-148	C
ATOM 1109 O THR B 40	32.998	30.057	-21.426	1.00	14.08		O
ANISOU 1109 O THR B 40	1618	1293	2439	-127	-685	-79	O
ATOM 1110 CB THR B 40	33.026	27.454	-22.987	1.00	11.83		C
ANISOU 1110 CB THR B 40	1253	1736	1506	333	363	23	C
ATOM 1111 OG1 THR B 40	32.214	26.428	-23.602	1.00	16.67		O
ANISOU 1111 OG1 THR B 40	2192	2353	1787	863	190	220	O
ATOM 1112 CG2 THR B 40	34.438	26.906	-23.153	1.00	20.64		C
ANISOU 1112 CG2 THR B 40	1384	4797	1661	-523	261	-518	C
ATOM 1113 N GLY B 41	34.378	28.757	-20.216	1.00	9.73		N
ANISOU 1113 N GLY B 41	1331	1349	1018	-176	69	-32	N
ATOM 1114 CA GLY B 41	35.111	29.933	-19.773	1.00	9.58		C
ANISOU 1114 CA GLY B 41	1064	1469	1108	-142	279	145	C
ATOM 1115 C GLY B 41	36.170	29.609	-18.766	1.00	9.60		C
ANISOU 1115 C GLY B 41	1107	1613	928	10	333	-24	C
ATOM 1116 O GLY B 41	36.730	28.500	-18.716	1.00	9.47		O
ANISOU 1116 O GLY B 41	1108	1618	871	32	181	-15	O
ATOM 1117 N THR B 42	36.487	30.616	-17.961	1.00	10.02		N
ANISOU 1117 N THR B 42	1364	1517	927	-110	151	-110	N
ATOM 1118 CA THR B 42	37.494	30.466	-16.932	1.00	10.04		C
ANISOU 1118 CA THR B 42	1126	1634	1053	-229	122	4	C
ATOM 1119 C THR B 42	37.008	31.019	-15.601	1.00	8.52		C
ANISOU 1119 C THR B 42	744	1425	1071	23	93	-47	C
ATOM 1120 O THR B 42	36.154	31.912	-15.569	1.00	9.75		O
ANISOU 1120 O THR B 42	1246	1510	949	-273	139	-119	O
ATOM 1121 CB THR B 42	38.818	31.171	-17.278	1.00	10.11		C
ANISOU 1121 CB THR B 42	1222	1715	905	-205	309	138	C
ATOM 1122 OG1 THR B 42	38.622	32.581	-17.429	1.00	12.06		O
ANISOU 1122 OG1 THR B 42	1656	1697	1231	-51	334	46	O
ATOM 1123 CG2 THR B 42	39.447	30.614	-18.550	1.00	12.36		C
ANISOU 1123 CG2 THR B 42	1599	2059	1037	131	390	478	C
ATOM 1124 N TYR B 43	37.611	30.502	-14.528	1.00	8.46		N
ANISOU 1124 N TYR B 43	1119	1100	994	-32	80	25	N
ATOM 1125 CA TYR B 43	37.222	30.933	-13.191	1.00	8.94		C
ANISOU 1125 CA TYR B 43	1109	1253	1036	171	87	74	C
ATOM 1126 C TYR B 43	38.499	31.210	-12.436	1.00	8.36		C
ANISOU 1126 C TYR B 43	1166	1066	943	151	59	-99	C
ATOM 1127 O TYR B 43	39.447	30.412	-12.494	1.00	10.26		O
ANISOU 1127 O TYR B 43	1250	1422	1225	-25	-60	1	O
ATOM 1128 CB TYR B 43	36.410	29.847	-12.496	1.00	8.66		C
ANISOU 1128 CB TYR B 43	1008	1398	884	162	-136	-168	C
ATOM 1129 CG TYR B 43	35.616	30.357	-11.319	1.00	8.52		C
ANISOU 1129 CG TYR B 43	1111	1166	958	163	-65	-160	C
ATOM 1130 CD1 TYR B 43	36.159	30.548	-10.053	1.00	8.73		C
ANISOU 1130 CD1 TYR B 43	1047	1307	962	117	-29	-123	C
ATOM 1131 CD2 TYR B 43	34.279	30.668	-11.517	1.00	8.11		C
ANISOU 1131 CD2 TYR B 43	1228	1135	719	29	-64	-62	C
ATOM 1132 CE1 TYR B 43	35.413	31.028	-8.977	1.00	9.45		C
ANISOU 1132 CE1 TYR B 43	1232	1396	961	67	-34	-92	C
ATOM 1133 CE2 TYR B 43	33.546	31.136	-10.465	1.00	8.82		C
ANISOU 1133 CE2 TYR B 43	1212	1495	643	204	131	-212	C
ATOM 1134 CZ TYR B 43	34.093	31.320	-9.196	1.00	9.15		C
ANISOU 1134 CZ TYR B 43	1250	1590	636	-33	86	-270	C
ATOM 1135 OH TYR B 43	33.270	31.794	-8.202	1.00	9.46		O
ANISOU 1135 OH TYR B 43	1283	1616	694	67	-2	-5	O

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ATOM	1136	N	GLU	B	44	38.533	32.328	-11.754	1.00	9.37	N
ANISOU	1136	N	GLU	B	44	1322	1400	839	31	-95	146
ATOM	1137	CA	GLU	B	44	39.634	32.715	-10.881	1.00	8.76	C
ANISOU	1137	CA	GLU	B	44	1084	1453	790	60	-45	-133
ATOM	1138	C	GLU	B	44	39.069	32.979	-9.476	1.00	8.75	C
ANISOU	1138	C	GLU	B	44	1361	1219	745	251	-108	-39
ATOM	1139	O	GLU	B	44	38.255	33.901	-9.311	1.00	10.93	O
ANISOU	1139	O	GLU	B	44	1496	1851	807	-213	-79	-47
ATOM	1140	CB	GLU	B	44	40.333	33.952	-11.444	1.00	10.05	C
ANISOU	1140	CB	GLU	B	44	1385	1408	1027	165	197	43
ATOM	1141	CG	GLU	B	44	41.560	34.315	-10.619	1.00	12.97	C
ANISOU	1141	CG	GLU	B	44	1716	1934	1278	569	-2	174
ATOM	1142	CD	GLU	B	44	42.359	35.451	-11.176	1.00	15.60	C
ANISOU	1142	CD	GLU	B	44	1703	2231	1995	683	100	-114
ATOM	1143	OE1	GLU	B	44	43.463	35.691	-10.629	1.00	19.83	O
ANISOU	1143	OE1	GLU	B	44	1716	2592	3225	731	-175	-101
ATOM	1144	OE2	GLU	B	44	41.907	36.109	-12.145	1.00	19.17	O
ANISOU	1144	OE2	GLU	B	44	2603	2723	1956	974	26	-467
ATOM	1145	N	SER	B	45	39.459	32.120	-8.513	1.00	10.05	N
ANISOU	1145	N	SER	B	45	1454	1513	851	89	113	-282
ATOM	1146	CA	SER	B	45	38.890	32.268	-7.183	1.00	8.34	C
ANISOU	1146	CA	SER	B	45	1031	1320	818	3	-69	-209
ATOM	1147	C	SER	B	45	39.746	33.185	-6.347	1.00	10.00	C
ANISOU	1147	C	SER	B	45	1207	1531	1060	541	377	-39
ATOM	1148	O	SER	B	45	40.988	33.097	-6.345	1.00	12.12	O
ANISOU	1148	O	SER	B	45	1164	1964	1478	491	55	6
ATOM	1149	CB	SER	B	45	38.851	30.904	-6.477	1.00	8.97	C
ANISOU	1149	CB	SER	B	45	1484	1134	789	50	240	-95
ATOM	1150	OG	SER	B	45	38.327	31.082	-5.154	1.00	9.60	O
ANISOU	1150	OG	SER	B	45	1188	1582	876	332	237	-6
ATOM	1151	N	ALA	B	46	39.079	34.052	-5.610	1.00	10.53	N
ANISOU	1151	N	ALA	B	46	1439	1407	1156	371	92	-17
ATOM	1152	CA	ALA	B	46	39.782	34.949	-4.682	1.00	12.75	C
ANISOU	1152	CA	ALA	B	46	1972	1634	1240	380	-80	143
ATOM	1153	C	ALA	B	46	40.179	34.250	-3.397	1.00	12.40	C
ANISOU	1153	C	ALA	B	46	1705	1585	1422	270	-231	162
ATOM	1154	O	ALA	B	46	40.964	34.821	-2.627	1.00	14.11	O
ANISOU	1154	O	ALA	B	46	2018	2060	1283	623	-158	180
ATOM	1155	CB	ALA	B	46	38.874	36.141	-4.427	1.00	18.08	C
ANISOU	1155	CB	ALA	B	46	2975	1547	2346	-106	-1028	482
ATOM	1156	N	VAL	B	47	39.643	33.060	-3.165	1.00	11.82	N
ANISOU	1156	N	VAL	B	47	1540	1877	1075	380	-106	32
ATOM	1157	CA	VAL	B	47	39.860	32.319	-1.943	1.00	11.13	C
ANISOU	1157	CA	VAL	B	47	1281	1918	1029	182	-36	62
ATOM	1158	C	VAL	B	47	40.222	30.863	-2.224	1.00	11.18	C
ANISOU	1158	C	VAL	B	47	1163	1976	1110	122	-52	75
ATOM	1159	O	VAL	B	47	40.015	30.317	-3.298	1.00	11.99	O
ANISOU	1159	O	VAL	B	47	1390	2071	1093	45	-15	170
ATOM	1160	CB	VAL	B	47	38.637	32.330	-1.005	1.00	11.00	C
ANISOU	1160	CB	VAL	B	47	1168	1801	1209	197	-13	70
ATOM	1161	CG1	VAL	B	47	38.298	33.778	-0.614	1.00	12.55	C
ANISOU	1161	CG1	VAL	B	47	1455	1865	1451	111	-28	211
ATOM	1162	CG2	VAL	B	47	37.410	31.665	-1.585	1.00	12.04	C
ANISOU	1162	CG2	VAL	B	47	1207	2266	1104	90	-100	552
ATOM	1163	N	GLY	B	48	40.773	30.219	-1.194	1.00	12.40	N
ANISOU	1163	N	GLY	B	48	1379	2165	1166	-184	-181	156

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ATOM	1164	CA	GLY	B	48	41.011	28.802	-1.289	1.00	10.72		C
ANISOU	1164	CA	GLY	B	48	1141	2190	743	-149	-222	168	C
ATOM	1165	C	GLY	B	48	42.343	28.423	-1.898	1.00	11.25		C
ANISOU	1165	C	GLY	B	48	1399	1991	886	68	257	95	C
ATOM	1166	O	GLY	B	48	43.204	29.271	-2.119	1.00	13.79		O
ANISOU	1166	O	GLY	B	48	1654	2137	1449	317	336	183	O
ATOM	1167	N	ASN	B	49	42.445	27.101	-2.158	1.00	11.54		N
ANISOU	1167	N	ASN	B	49	1210	1984	1189	100	206	48	N
ATOM	1168	CA	ASN	B	49	43.681	26.569	-2.724	1.00	13.41		C
ANISOU	1168	CA	ASN	B	49	1524	2232	1340	-291	90	187	C
ATOM	1169	C	ASN	B	49	43.660	26.713	-4.234	1.00	10.92		C
ANISOU	1169	C	ASN	B	49	931	1870	1349	21	163	274	C
ATOM	1170	O	ASN	B	49	43.392	25.775	-4.999	1.00	13.13		O
ANISOU	1170	O	ASN	B	49	1675	1804	1511	139	210	303	O
ATOM	1171	CB	ASN	B	49	43.784	25.124	-2.244	1.00	14.65		C
ANISOU	1171	CB	ASN	B	49	1699	2281	1585	-285	-533	38	C
ATOM	1172	CG	ASN	B	49	45.155	24.555	-2.586	1.00	18.34		C
ANISOU	1172	CG	ASN	B	49	1835	2836	2299	-693	-593	-295	C
ATOM	1173	OD1	ASN	B	49	46.046	25.241	-3.120	1.00	21.34		O
ANISOU	1173	OD1	ASN	B	49	1949	3642	2516	-441	-60	76	O
ATOM	1174	ND2	ASN	B	49	45.281	23.280	-2.286	1.00	22.66		N
ANISOU	1174	ND2	ASN	B	49	2929	2783	2897	-1097	-850	-84	N
ATOM	1175	N	ALA	B	50	43.905	27.927	-4.678	1.00	12.37		N
ANISOU	1175	N	ALA	B	50	1466	1945	1289	414	-175	281	N
ATOM	1176	CA	ALA	B	50	43.640	28.301	-6.058	1.00	12.40		C
ANISOU	1176	CA	ALA	B	50	1080	2342	1289	580	-141	151	C
ATOM	1177	C	ALA	B	50	44.512	29.481	-6.385	1.00	12.40		C
ANISOU	1177	C	ALA	B	50	1215	2190	1306	487	-57	214	C
ATOM	1178	O	ALA	B	50	44.701	30.366	-5.587	1.00	13.98		O
ANISOU	1178	O	ALA	B	50	1888	1828	1594	332	-40	202	O
ATOM	1179	CB	ALA	B	50	42.183	28.691	-6.234	1.00	14.13		C
ANISOU	1179	CB	ALA	B	50	1121	2927	1320	487	-34	14	C
ATOM	1180	N	GLU	B	51	45.061	29.542	-7.573	1.00	13.43		N
ANISOU	1180	N	GLU	B	51	1598	1948	1557	291	280	32	N
ATOM	1181	CA	GLU	B	51	45.748	30.722	-8.119	1.00	11.77		C
ANISOU	1181	CA	GLU	B	51	1397	1697	1379	462	-246	123	C
ATOM	1182	C	GLU	B	51	45.528	30.756	-9.619	1.00	11.21		C
ANISOU	1182	C	GLU	B	51	1039	1856	1364	234	161	122	C
ATOM	1183	O	GLU	B	51	45.479	29.741	-10.315	1.00	11.64		O
ANISOU	1183	O	GLU	B	51	1275	1967	1181	97	67	114	O
ATOM	1184	CB	GLU	B	51	47.202	30.677	-7.757	1.00	15.16		C
ANISOU	1184	CB	GLU	B	51	1393	2518	1850	290	-251	59	C
ATOM	1185	CG	GLU	B	51	48.135	29.800	-8.521	1.00	23.06		C
ANISOU	1185	CG	GLU	B	51	1690	5441	1633	-356	9	770	C
ATOM	1186	CD	GLU	B	51	49.568	29.925	-8.012	1.00	26.44		C
ANISOU	1186	CD	GLU	B	51	1617	6622	1808	-551	-37	1010	C
ATOM	1187	OE1	GLU	B	51	50.238	30.880	-8.468	1.00	29.27		O
ANISOU	1187	OE1	GLU	B	51	1421	7594	2106	-102	-287	532	O
ATOM	1188	OE2	GLU	B	51	49.936	29.077	-7.178	1.00	29.72		O
ANISOU	1188	OE2	GLU	B	51	1798	7646	1848	-574	-109	496	O
ATOM	1189	N	SER	B	52	45.368	31.955	-10.155	1.00	12.91		N
ANISOU	1189	N	SER	B	52	1594	1942	1371	565	-112	-41	N
ATOM	1190	CA	SER	B	52	45.143	32.188	-11.568	1.00	13.86		C
ANISOU	1190	CA	SER	B	52	1803	2224	1239	829	16	3	C
ATOM	1191	C	SER	B	52	43.859	31.571	-12.050	1.00	11.23		C
ANISOU	1191	C	SER	B	52	1644	1606	1015	490	-15	-248	C

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ATOM 1192 O SER B 52	42.957 31.281 -11.279 1.00 12.69	O
ANISOU 1192 O SER B 52	1530 2323 969 536 18 38	O
ATOM 1193 CB SER B 52	46.344 31.678 -12.385 1.00 17.92	C
ANISOU 1193 CB SER B 52	1798 3228 1782 1183 378 491	C
ATOM 1194 OG SER B 52	46.286 32.335 -13.686 1.00 21.18	O
ANISOU 1194 OG SER B 52	2151 3844 2051 1246 782 98	O
ATOM 1195 N ARG B 53	43.727 31.367 -13.353 1.00 11.98	N
ANISOU 1195 N ARG B 53	1302 2157 1095 478 78 -42	N
ATOM 1196 CA ARG B 53	42.482 30.925 -13.981 1.00 10.08	C
ANISOU 1196 CA ARG B 53	1146 1626 1060 326 227 147	C
ATOM 1197 C ARG B 53	42.446 29.402 -14.118 1.00 10.33	C
ANISOU 1197 C ARG B 53	1257 1623 1044 191 457 35	C
ATOM 1198 O ARG B 53	43.472 28.735 -14.336 1.00 11.33	O
ANISOU 1198 O ARG B 53	1225 1881 1199 22 118 151	O
ATOM 1199 CB ARG B 53	42.345 31.597 -15.349 1.00 11.61	C
ANISOU 1199 CB ARG B 53	1463 1670 1278 404 -112 -8	C
ATOM 1200 CG ARG B 53	42.048 33.083 -15.331 1.00 13.83	C
ANISOU 1200 CG ARG B 53	2274 1677 1302 183 -112 118	C
ATOM 1201 CD ARG B 53	42.134 33.836 -16.663 1.00 20.43	C
ANISOU 1201 CD ARG B 53	3996 2354 1412 346 -1819 -429	C
ATOM 1202 NE ARG B 53	42.119 35.272 -16.423 1.00 34.31	N
ANISOU 1202 NE ARG B 53	6540 2130 4365 107 -589 -1095	N
ATOM 1203 CZ ARG B 53	41.944 36.333 -17.184 1.00 38.78	C
ANISOU 1203 CZ ARG B 53	7777 2651 4307 251 -1554 -1297	C
ATOM 1204 NH1 ARG B 53	41.972 37.612 -16.773 1.00 63.04	N
ANISOU 1204 NH1 ARG B 53	10590 1920 11441 2096 -4879 -1510	N
ATOM 1205 NH2 ARG B 53	41.709 36.238 -18.501 1.00 47.12	N
ANISOU 1205 NH2 ARG B 53	4899 9662 3341 336 784 -2242	N
ATOM 1206 N TYR B 54	41.233 28.885 -14.005 1.00 10.20	N
ANISOU 1206 N TYR B 54	1227 1572 1074 263 172 -83	N
ATOM 1207 CA TYR B 54	40.906 27.487 -14.161 1.00 10.24	C
ANISOU 1207 CA TYR B 54	1548 1602 740 297 157 150	C
ATOM 1208 C TYR B 54	39.842 27.351 -15.260 1.00 9.19	C
ANISOU 1208 C TYR B 54	1392 1469 629 -91 282 221	C
ATOM 1209 O TYR B 54	38.969 28.207 -15.355 1.00 10.27	O
ANISOU 1209 O TYR B 54	1657 1132 1114 -113 287 112	O
ATOM 1210 CB TYR B 54	40.356 26.815 -12.903 1.00 9.11	C
ANISOU 1210 CB TYR B 54	1244 1356 862 -58 62 -101	C
ATOM 1211 CG TYR B 54	41.418 26.819 -11.797 1.00 9.25	C
ANISOU 1211 CG TYR B 54	1184 1407 924 68 117 -86	C
ATOM 1212 CD1 TYR B 54	41.673 27.992 -11.103 1.00 9.26	C
ANISOU 1212 CD1 TYR B 54	1144 1498 875 75 229 5	C
ATOM 1213 CD2 TYR B 54	42.163 25.706 -11.489 1.00 9.28	C
ANISOU 1213 CD2 TYR B 54	1202 1515 809 -100 92 -90	C
ATOM 1214 CE1 TYR B 54	42.646 28.011 -10.111 1.00 10.00	C
ANISOU 1214 CE1 TYR B 54	1323 1462 1015 210 66 -106	C
ATOM 1215 CE2 TYR B 54	43.131 25.721 -10.526 1.00 9.41	C
ANISOU 1215 CE2 TYR B 54	1024 1566 986 47 139 -22	C
ATOM 1216 CZ TYR B 54	43.370 26.873 -9.818 1.00 9.61	C
ANISOU 1216 CZ TYR B 54	1134 1524 992 204 126 -126	C
ATOM 1217 OH TYR B 54	44.338 26.919 -8.842 1.00 11.90	O
ANISOU 1217 OH TYR B 54	1087 1942 1490 100 -135 128	O
ATOM 1218 N VAL B 55	39.932 26.264 -16.005 1.00 8.42	N
ANISOU 1218 N VAL B 55	1069 1349 782 -204 94 198	N
ATOM 1219 CA VAL B 55	38.923 25.960 -17.013 1.00 9.14	C
ANISOU 1219 CA VAL B 55	1153 1287 1031 3 -75 38	C

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ATOM	1220	C	VAL	B	55	37.585	25.651	-16.359	1.00	8.95	C
ANISOU	1220	C	VAL	B	55	1261	1258	880	93	-101 -111	C
ATOM	1221	O	VAL	B	55	37.545	24.952	-15.356	1.00	9.42	O
ANISOU	1221	O	VAL	B	55	1271	1321	989	-274 -77 -185	O	
ATOM	1222	CB	VAL	B	55	39.369	24.788	-17.882	1.00	9.65	C
ANISOU	1222	CB	VAL	B	55	1279	1390	998	268 -39 186	C	
ATOM	1223	CG1	VAL	B	55	38.263	24.366	-18.836	1.00	11.05	C
ANISOU	1223	CG1	VAL	B	55	1362	1832	1003	383 -111 118	C	
ATOM	1224	CG2	VAL	B	55	40.634	25.128	-18.675	1.00	10.08	C
ANISOU	1224	CG2	VAL	B	55	1191	1672	967	73 -28 9	C	
ATOM	1225	N	LEU	B	56	36.507	26.146	-16.958	1.00	8.84	N
ANISOU	1225	N	LEU	B	56	1139	1348	873	97 3 -319	N	
ATOM	1226	CA	LEU	B	56	35.185	25.721	-16.566	1.00	9.06	C
ANISOU	1226	CA	LEU	B	56	1232	1529	680	200 139 60	C	
ATOM	1227	C	LEU	B	56	34.395	25.328	-17.819	1.00	10.16	C
ANISOU	1227	C	LEU	B	56	1328	1879	652	328 99 67	C	
ATOM	1228	O	LEU	B	56	34.613	25.862	-18.896	1.00	10.49	O
ANISOU	1228	O	LEU	B	56	1568	1602	816	257 -127 -180	O	
ATOM	1229	CB	LEU	B	56	34.396	26.787	-15.831	1.00	10.97	C
ANISOU	1229	CB	LEU	B	56	1496	1937	736	-156 -6 195	C	
ATOM	1230	CG	LEU	B	56	33.930	28.009	-16.561	1.00	12.19	C
ANISOU	1230	CG	LEU	B	56	1504	1854	1275	-149 -294 208	C	
ATOM	1231	CD1	LEU	B	56	32.486	27.881	-17.057	1.00	11.48	C
ANISOU	1231	CD1	LEU	B	56	1325	1561	1475	208 -95 -253	C	
ATOM	1232	CD2	LEU	B	56	34.067	29.229	-15.640	1.00	15.47	C
ANISOU	1232	CD2	LEU	B	56	2240	1851	1786	-62 -539 378	C	
ATOM	1233	N	THR	B	57	33.423	24.460	-17.557	1.00	8.39	N
ANISOU	1233	N	THR	B	57	976	1446	766	-88 -29 -64	N	
ATOM	1234	CA	THR	B	57	32.433	24.163	-18.584	1.00	8.94	C
ANISOU	1234	CA	THR	B	57	928	1654	815	-39 47 58	C	
ATOM	1235	C	THR	B	57	31.119	23.925	-17.862	1.00	8.16	C
ANISOU	1235	C	THR	B	57	939	1503	660	-130 -10 12	C	
ATOM	1236	O	THR	B	57	31.102	23.490	-16.720	1.00	8.98	O
ANISOU	1236	O	THR	B	57	1406	1465	542	156 -7 111	O	
ATOM	1237	CB	THR	B	57	32.770	22.954	-19.475	1.00	10.01	C
ANISOU	1237	CB	THR	B	57	1225	1671	906	-73 98 166	C	
ATOM	1238	OG1	ATHR	B	57	32.907	21.747	-18.717	0.50	13.13	O
ANISOU	1238	OG1	ATHR	B	57	2639	1576	774	118 112 233	O	
ATOM	1239	OG1	BTHR	B	57	31.893	22.657	-20.513	0.50	12.28	O
ANISOU	1239	OG1	BTHR	B	57	1611	1614	1440	-212 -339 321	O	
ATOM	1240	CG2	ATHR	B	57	34.002	23.196	-20.315	0.50	9.27	C
ANISOU	1240	CG2	ATHR	B	57	947	1193	1384	-220 107 275	C	
ATOM	1241	CG2	BTHR	B	57	32.782	21.766	-18.469	0.50	9.99	C
ANISOU	1241	CG2	BTHR	B	57	888	1672	1238	43 346 -20	C	
ATOM	1242	N	GLY	B	58	30.040	24.182	-18.561	1.00	9.19	N
ANISOU	1242	N	GLY	B	58	945	1526	1020	-40 -109 -11	N	
ATOM	1243	CA	GLY	B	58	28.703	23.980	-18.042	1.00	11.10	C
ANISOU	1243	CA	GLY	B	58	931	2223	1062	178 -131 172	C	
ATOM	1244	C	GLY	B	58	27.647	24.008	-19.125	1.00	9.16	C
ANISOU	1244	C	GLY	B	58	998	1459	1023	86 -148 64	C	
ATOM	1245	O	GLY	B	58	27.935	23.915	-20.306	1.00	9.57	O
ANISOU	1245	O	GLY	B	58	1192	1468	977	157 -74 -121	O	
ATOM	1246	N	ARG	B	59	26.404	24.143	-18.652	1.00	8.98	N
ANISOU	1246	N	ARG	B	59	1038	1477	899	-184 -207 -259	N	
ATOM	1247	CA	ARG	B	59	25.243	24.178	-19.517	1.00	9.01	C
ANISOU	1247	CA	ARG	B	59	1095	1429	899	-128 -260 -326	C	

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ATOM 1248 C ARG B 59	24.240	25.184	-18.949	1.00	9.13		C
ANISOU 1248 C ARG B 59	847	1825	797	-33	-462	108	C
ATOM 1249 O ARG B 59	24.191	25.451	-17.754	1.00	10.34		O
ANISOU 1249 O ARG B 59	1417	1768	743	15	-375	10	O
ATOM 1250 CB ARG B 59	24.561	22.815	-19.650	1.00	10.28		C
ANISOU 1250 CB ARG B 59	1321	1527	1057	64	-238	-372	C
ATOM 1251 CG ARG B 59	25.446	21.650	-20.018	1.00	10.93		C
ANISOU 1251 CG ARG B 59	1454	1423	1276	126	-315	-147	C
ATOM 1252 CD ARG B 59	25.913	21.684	-21.460	1.00	11.05		C
ANISOU 1252 CD ARG B 59	1250	1589	1361	46	-282	-146	C
ATOM 1253 NE ARG B 59	24.726	21.580	-22.325	1.00	11.47		N
ANISOU 1253 NE ARG B 59	1375	1786	1198	-166	-308	90	N
ATOM 1254 CZ ARG B 59	24.671	21.844	-23.609	1.00	11.57		C
ANISOU 1254 CZ ARG B 59	1535	1821	1039	361	-102	327	C
ATOM 1255 NH1 ARG B 59	25.780	22.202	-24.208	1.00	13.86		N
ANISOU 1255 NH1 ARG B 59	1699	1559	2006	297	216	-98	N
ATOM 1256 NH2 ARG B 59	23.503	21.712	-24.205	1.00	12.36		N
ANISOU 1256 NH2 ARG B 59	1534	2442	722	21	-79	5	N
ATOM 1257 N TYR B 60	23.426	25.710	-19.867	1.00	9.31		N
ANISOU 1257 N TYR B 60	1131	1621	786	-269	-246	-189	N
ATOM 1258 CA TYR B 60	22.330	26.556	-19.453	1.00	9.14		C
ANISOU 1258 CA TYR B 60	945	1540	986	-65	-175	74	C
ATOM 1259 C TYR B 60	21.127	26.318	-20.367	1.00	8.73		C
ANISOU 1259 C TYR B 60	1046	1426	844	-166	-209	-124	C
ATOM 1260 O TYR B 60	21.298	25.770	-21.461	1.00	10.23		O
ANISOU 1260 O TYR B 60	1126	1914	846	46	-199	-14	O
ATOM 1261 CB TYR B 60	22.700	28.055	-19.485	1.00	10.15		C
ANISOU 1261 CB TYR B 60	1270	1575	1010	-29	-182	98	C
ATOM 1262 CG TYR B 60	22.768	28.631	-20.888	1.00	10.72		C
ANISOU 1262 CG TYR B 60	1619	1413	1042	-147	-1	143	C
ATOM 1263 CD1 TYR B 60	23.788	28.357	-21.771	1.00	11.26		C
ANISOU 1263 CD1 TYR B 60	1334	1895	1048	57	-54	-7	C
ATOM 1264 CD2 TYR B 60	21.760	29.482	-21.336	1.00	10.65		C
ANISOU 1264 CD2 TYR B 60	1540	1465	1040	37	84	-176	C
ATOM 1265 CE1 TYR B 60	23.849	28.872	-23.048	1.00	11.42		C
ANISOU 1265 CE1 TYR B 60	1696	1578	1064	28	17	62	C
ATOM 1266 CE2 TYR B 60	21.801	30.016	-22.597	1.00	10.72		C
ANISOU 1266 CE2 TYR B 60	1225	1948	899	305	-120	-97	C
ATOM 1267 CZ TYR B 60	22.845	29.709	-23.445	1.00	11.59		C
ANISOU 1267 CZ TYR B 60	1420	2159	826	151	-91	-112	C
ATOM 1268 OH TYR B 60	22.823	30.279	-24.689	1.00	14.36		O
ANISOU 1268 OH TYR B 60	2095	2364	998	163	147	-422	O
ATOM 1269 N ASP B 61	19.949	26.712	-19.899	1.00	9.15		N
ANISOU 1269 N ASP B 61	925	1240	1311	-80	-169	-106	N
ATOM 1270 CA ASP B 61	18.720	26.630	-20.682	1.00	9.34		C
ANISOU 1270 CA ASP B 61	1015	1491	1043	49	-156	-231	C
ATOM 1271 C ASP B 61	18.725	27.703	-21.764	1.00	10.04		C
ANISOU 1271 C ASP B 61	1486	1418	911	67	-138	-173	C
ATOM 1272 O ASP B 61	18.559	28.878	-21.499	1.00	11.42		O
ANISOU 1272 O ASP B 61	1574	1486	1278	-112	-209	-6	O
ATOM 1273 CB ASP B 61	17.525	26.831	-19.758	1.00	11.26		C
ANISOU 1273 CB ASP B 61	997	1956	1326	36	-14	-386	C
ATOM 1274 CG ASP B 61	16.181	26.755	-20.455	1.00	10.61		C
ANISOU 1274 CG ASP B 61	1063	2041	927	16	6	-282	C
ATOM 1275 OD1 ASP B 61	16.209	26.511	-21.682	1.00	11.43		O
ANISOU 1275 OD1 ASP B 61	1538	1850	955	174	183	-178	O

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ATOM 1276 OD2 ASP B 61	15.170	26.924	-19.738	1.00	11.46	O
ANISOU 1276 OD2 ASP B 61	1086	2397	871	-111	22 -295	O
ATOM 1277 N SER B 62	18.906	27.268	-22.978	1.00	9.74	N
ANISOU 1277 N SER B 62	1236	1386	1077	-162	112 -205	N
ATOM 1278 CA SER B 62	19.024	28.171	-24.140	1.00	12.30	C
ANISOU 1278 CA SER B 62	1518	2174	981	-115	-23 -417	C
ATOM 1279 C SER B 62	17.673	28.553	-24.715	1.00	13.34	C
ANISOU 1279 C SER B 62	1704	2553	811	-163	-219 -253	C
ATOM 1280 O SER B 62	17.648	29.248	-25.713	1.00	16.84	O
ANISOU 1280 O SER B 62	1983	3526	888	-259	-236 -647	O
ATOM 1281 CB SER B 62	19.954	27.571	-25.185	1.00	12.27	C
ANISOU 1281 CB SER B 62	1520	2211	932	258	-7 -107	C
ATOM 1282 OG SER B 62	19.718	26.243	-25.517	1.00	14.91	O
ANISOU 1282 OG SER B 62	2199	2058	1408	91	-185 -150	O
ATOM 1283 N ALA B 63	16.577	28.161	-24.069	1.00	13.74	N
ANISOU 1283 N ALA B 63	1527	2444	1249	-185	-299 -432	N
ATOM 1284 CA ALA B 63	15.223	28.579	-24.437	1.00	14.32	C
ANISOU 1284 CA ALA B 63	1641	2379	1422	-326	-450 -98	C
ATOM 1285 C ALA B 63	14.389	28.701	-23.162	1.00	13.62	C
ANISOU 1285 C ALA B 63	1333	2422	1419	-57	-487 -190	C
ATOM 1286 O ALA B 63	13.442	27.954	-22.941	1.00	15.44	O
ANISOU 1286 O ALA B 63	1511	2389	1965	95	-463 -81	O
ATOM 1287 CB ALA B 63	14.602	27.624	-25.424	1.00	15.96	C
ANISOU 1287 CB ALA B 63	2293	2431	1341	-220	-804 -238	C
ATOM 1288 N PRO B 64	14.745	29.673	-22.331	1.00	14.11	N
ANISOU 1288 N PRO B 64	1406	2422	1532	148	-63 -72	N
ATOM 1289 CA PRO B 64	14.050	29.819	-21.032	1.00	13.81	C
ANISOU 1289 CA PRO B 64	1378	2414	1455	-62	-122 -278	C
ATOM 1290 C PRO B 64	12.586	30.173	-21.240	1.00	16.46	C
ANISOU 1290 C PRO B 64	1523	3355	1378	-329	-35 -690	C
ATOM 1291 O PRO B 64	12.115	30.582	-22.318	1.00	19.37	O
ANISOU 1291 O PRO B 64	1794	3893	1672	-498	-251 -923	O
ATOM 1292 CB PRO B 64	14.816	30.934	-20.321	1.00	17.79	C
ANISOU 1292 CB PRO B 64	2212	2934	1611	237	-95 159	C
ATOM 1293 CG PRO B 64	15.440	31.729	-21.435	1.00	18.16	C
ANISOU 1293 CG PRO B 64	1965	2533	2402	311	621 419	C
ATOM 1294 CD PRO B 64	15.769	30.711	-22.508	1.00	16.42	C
ANISOU 1294 CD PRO B 64	1648	2343	2248	169	479 229	C
ATOM 1295 N ALA B 65	11.839	30.023	-20.166	1.00	16.93	N
ANISOU 1295 N ALA B 65	1599	3192	1640	-339	271 -549	N
ATOM 1296 CA ALA B 65	10.406	30.353	-20.157	1.00	20.48	C
ANISOU 1296 CA ALA B 65	1704	3604	2474	-597	343 -1364	C
ATOM 1297 C ALA B 65	10.271	31.856	-20.346	1.00	25.60	C
ANISOU 1297 C ALA B 65	3186	3622	2919	-1232	623 -1155	C
ATOM 1298 O ALA B 65	11.159	32.660	-20.087	1.00	25.55	O
ANISOU 1298 O ALA B 65	3924	3137	2646	-970	755 -1252	O
ATOM 1299 CB ALA B 65	9.734	29.897	-18.877	1.00	18.10	C
ANISOU 1299 CB ALA B 65	1163	3936	1778	-264	13 -612	C
ATOM 1300 N THR B 66	9.092	32.207	-20.831	1.00	30.78	N
ANISOU 1300 N THR B 66	3348	4078	4268	-1764	647 -1397	N
ATOM 1301 CA THR B 66	8.911	33.624	-21.140	1.00	31.37	C
ANISOU 1301 CA THR B 66	4571	4002	3346	-2139	554 -982	C
ATOM 1302 C THR B 66	7.887	34.193	-20.160	1.00	28.90	C
ANISOU 1302 C THR B 66	3476	3725	3779	-1281	812 -1200	C
ATOM 1303 O THR B 66	7.143	35.127	-20.507	1.00	37.49	O
ANISOU 1303 O THR B 66	4766	6230	3249	-3186	1035 -1595	O

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ATOM	1304	CB	THR	B	66	8.477	33.905	-22.586	1.00	33.80		C
ANISOU	1304	CB	THR	B	66	5361	4104	3376	-1259	129	-1012	C
ATOM	1305	OG1	THR	B	66	7.553	32.897	-23.007	1.00	42.83		O
ANISOU	1305	OG1	THR	B	66	4748	5899	5629	-250	-1403	-2611	O
ATOM	1306	CG2	THR	B	66	9.668	33.857	-23.543	1.00	34.41		C
ANISOU	1306	CG2	THR	B	66	4506	6293	2274	-161	-857	568	C
ATOM	1307	N	ASP	B	67	7.853	33.652	-18.955	1.00	26.12		N
ANISOU	1307	N	ASP	B	67	2961	3066	3899	-841	763	-1200	N
ATOM	1308	CA	ASP	B	67	6.959	34.199	-17.951	1.00	21.73		C
ANISOU	1308	CA	ASP	B	67	2237	2523	3497	-303	249	-1040	C
ATOM	1309	C	ASP	B	67	7.666	34.977	-16.866	1.00	25.89		C
ANISOU	1309	C	ASP	B	67	3191	2314	4333	59	-167	-879	C
ATOM	1310	O	ASP	B	67	7.144	35.188	-15.770	1.00	24.99		O
ANISOU	1310	O	ASP	B	67	2382	2833	4280	-241	-717	-295	O
ATOM	1311	CB	ASP	B	67	6.244	33.029	-17.283	1.00	20.35		C
ANISOU	1311	CB	ASP	B	67	1962	2863	2909	-23	-556	-1263	C
ATOM	1312	CG	ASP	B	67	7.246	32.094	-16.633	1.00	17.71		C
ANISOU	1312	CG	ASP	B	67	1598	2872	2260	-171	-108	-968	C
ATOM	1313	OD1	ASP	B	67	8.453	32.294	-16.757	1.00	17.75		O
ANISOU	1313	OD1	ASP	B	67	1623	3095	2025	-418	379	-625	O
ATOM	1314	OD2	ASP	B	67	6.754	31.141	-16.003	1.00	20.12		O
ANISOU	1314	OD2	ASP	B	67	1917	3067	2663	-289	-10	-1377	O
ATOM	1315	N	GLY	B	68	8.899	35.415	-17.131	1.00	24.25		N
ANISOU	1315	N	GLY	B	68	3073	2120	4019	-61	-561	-1333	N
ATOM	1316	CA	GLY	B	68	9.542	36.161	-16.056	1.00	25.90		C
ANISOU	1316	CA	GLY	B	68	3276	1900	4663	-414	-836	-928	C
ATOM	1317	C	GLY	B	68	10.512	35.326	-15.250	1.00	24.53		C
ANISOU	1317	C	GLY	B	68	2804	2211	4306	-722	-625	-612	C
ATOM	1318	O	GLY	B	68	11.232	35.808	-14.378	1.00	24.92		O
ANISOU	1318	O	GLY	B	68	2840	2517	4113	-880	-370	-157	O
ATOM	1319	N	SER	B	69	10.537	34.027	-15.542	1.00	19.36		N
ANISOU	1319	N	SER	B	69	1701	2269	3387	-682	59	-665	N
ATOM	1320	CA	SER	B	69	11.457	33.185	-14.802	1.00	14.51		C
ANISOU	1320	CA	SER	B	69	1560	2092	1861	-796	253	105	C
ATOM	1321	C	SER	B	69	12.898	33.364	-15.267	1.00	14.31		C
ANISOU	1321	C	SER	B	69	1652	2130	1654	-680	252	9	C
ATOM	1322	O	SER	B	69	13.254	33.729	-16.390	1.00	16.07		O
ANISOU	1322	O	SER	B	69	1750	2426	1930	57	-101	-628	O
ATOM	1323	CB	SER	B	69	11.049	31.724	-14.983	1.00	15.51		C
ANISOU	1323	CB	SER	B	69	1416	2095	2380	-791	25	20	C
ATOM	1324	OG	SER	B	69	9.733	31.471	-14.552	1.00	17.53		O
ANISOU	1324	OG	SER	B	69	1731	2943	1988	-344	204	-151	O
ATOM	1325	N	GLY	B	70	13.792	33.079	-14.334	1.00	12.85		N
ANISOU	1325	N	GLY	B	70	1473	1953	1457	-224	396	-268	N
ATOM	1326	CA	GLY	B	70	15.185	33.089	-14.708	1.00	11.42		C
ANISOU	1326	CA	GLY	B	70	1455	1595	1289	217	342	94	C
ATOM	1327	C	GLY	B	70	15.603	31.909	-15.559	1.00	10.03		C
ANISOU	1327	C	GLY	B	70	1118	1674	1019	218	45	67	C
ATOM	1328	O	GLY	B	70	14.811	31.018	-15.875	1.00	11.33		O
ANISOU	1328	O	GLY	B	70	983	1645	1678	106	-70	186	O
ATOM	1329	N	THR	B	71	16.897	31.932	-15.903	1.00	9.97		N
ANISOU	1329	N	THR	B	71	1090	1639	1057	175	121	-96	N
ATOM	1330	CA	THR	B	71	17.479	30.963	-16.826	1.00	10.03		C
ANISOU	1330	CA	THR	B	71	1213	1733	864	-109	-36	-188	C
ATOM	1331	C	THR	B	71	18.327	29.976	-16.039	1.00	9.68		C
ANISOU	1331	C	THR	B	71	1148	1629	902	180	-195	-369	C

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ATOM	1332	O	THR	B	71	19.388	30.343	-15.501	1.00	10.27	O	
ANISOU	1332	O	THR	B	71	1282	1442	1177	96	-309	80	O
ATOM	1333	CB	THR	B	71	18.330	31.664	-17.890	1.00	9.79	C	
ANISOU	1333	CB	THR	B	71	1430	1403	886	-149	29	-244	C
ATOM	1334	OG1	THR	B	71	17.461	32.510	-18.666	1.00	13.40	O	
ANISOU	1334	OG1	THR	B	71	1826	1972	1292	-521	-115	-475	O
ATOM	1335	CG2	THR	B	71	18.965	30.653	-18.838	1.00	14.13	C	
ANISOU	1335	CG2	THR	B	71	1647	2383	1340	-587	366	-9	C
ATOM	1336	N	ALA	B	72	17.910	28.702	-15.967	1.00	9.82	N	
ANISOU	1336	N	ALA	B	72	1036	1560	1134	94	-138	-126	N
ATOM	1337	CA	ALA	B	72	18.688	27.740	-15.225	1.00	9.88	C	
ANISOU	1337	CA	ALA	B	72	1330	1546	878	-102	-52	-109	C
ATOM	1338	C	ALA	B	72	20.037	27.475	-15.869	1.00	8.75	C	
ANISOU	1338	C	ALA	B	72	1303	1221	802	-31	-110	-128	C
ATOM	1339	O	ALA	B	72	20.192	27.413	-17.075	1.00	10.09	O	
ANISOU	1339	O	ALA	B	72	1338	1701	792	-37	-127	-12	O
ATOM	1340	CB	ALA	B	72	17.926	26.423	-15.099	1.00	10.52	C	
ANISOU	1340	CB	ALA	B	72	1249	1707	1043	-74	20	-294	C
ATOM	1341	N	LEU	B	73	21.028	27.234	-15.008	1.00	9.28	N	
ANISOU	1341	N	LEU	B	73	1306	1332	889	-73	-152	-187	N
ATOM	1342	CA	LEU	B	73	22.375	26.940	-15.487	1.00	8.15	C	
ANISOU	1342	CA	LEU	B	73	1316	926	856	28	-129	170	C
ATOM	1343	C	LEU	B	73	23.174	26.209	-14.421	1.00	8.77	C	
ANISOU	1343	C	LEU	B	73	1067	1387	877	-3	42	-69	C
ATOM	1344	O	LEU	B	73	22.813	26.162	-13.250	1.00	9.75	O	
ANISOU	1344	O	LEU	B	73	1172	1673	859	-286	23	-10	O
ATOM	1345	CB	LEU	B	73	23.051	28.237	-15.930	1.00	11.54	C	
ANISOU	1345	CB	LEU	B	73	1336	1369	1680	417	-610	-336	C
ATOM	1346	CG	LEU	B	73	23.173	29.399	-14.920	1.00	16.02	C	
ANISOU	1346	CG	LEU	B	73	2736	1222	2127	969	-984	-286	C
ATOM	1347	CD1	LEU	B	73	24.057	29.244	-13.730	1.00	23.76	C	
ANISOU	1347	CD1	LEU	B	73	4415	2831	1781	987	-1359	-285	C
ATOM	1348	CD2	LEU	B	73	23.657	30.636	-15.723	1.00	22.51	C	
ANISOU	1348	CD2	LEU	B	73	5420	1723	1409	1587	-382	-91	C
ATOM	1349	N	GLY	B	74	24.341	25.762	-14.873	1.00	8.48	N	
ANISOU	1349	N	GLY	B	74	921	1611	692	142	-96	21	N
ATOM	1350	CA	GLY	B	74	25.315	25.198	-13.949	1.00	8.57	C	
ANISOU	1350	CA	GLY	B	74	970	1269	1016	207	-202	-98	C
ATOM	1351	C	GLY	B	74	26.669	25.126	-14.617	1.00	7.16	C	
ANISOU	1351	C	GLY	B	74	1099	826	795	-34	-184	-262	C
ATOM	1352	O	GLY	B	74	26.714	25.080	-15.846	1.00	9.04	O	
ANISOU	1352	O	GLY	B	74	1290	1373	771	-73	-313	-43	O
ATOM	1353	N	TRP	B	75	27.720	25.065	-13.811	1.00	7.97	N	
ANISOU	1353	N	TRP	B	75	1006	1347	676	213	-174	80	N
ATOM	1354	CA	TRP	B	75	29.063	24.817	-14.363	1.00	8.46	C	
ANISOU	1354	CA	TRP	B	75	1015	1466	732	201	-97	-162	C
ATOM	1355	C	TRP	B	75	29.966	24.141	-13.323	1.00	7.99	C	
ANISOU	1355	C	TRP	B	75	1199	1129	707	-23	11	-61	C
ATOM	1356	O	TRP	B	75	29.645	24.154	-12.133	1.00	8.41	O	
ANISOU	1356	O	TRP	B	75	1013	1493	689	103	53	-100	O
ATOM	1357	CB	TRP	B	75	29.697	26.078	-14.906	1.00	7.46	C	
ANISOU	1357	CB	TRP	B	75	888	1137	810	-85	-31	-58	C
ATOM	1358	CG	TRP	B	75	30.074	27.106	-13.893	1.00	7.88	C	
ANISOU	1358	CG	TRP	B	75	1127	1212	655	-114	-50	-77	C
ATOM	1359	CD1	TRP	B	75	31.288	27.248	-13.280	1.00	10.20	C	
ANISOU	1359	CD1	TRP	B	75	1207	1840	828	-152	-136	344	C

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ATOM	1360	CD2 TRP B 75	29.239	28.152	-13.395	1.00	8.13		C
ANISOU	1360	CD2 TRP B 75	991	1026	1073	205	280	21	C
ATOM	1361	NE1 TRP B 75	31.269	28.306	-12.424	1.00	10.19		N
ANISOU	1361	NE1 TRP B 75	1529	1274	1068	-77	-274	55	N
ATOM	1362	CE2 TRP B 75	30.023	28.880	-12.459	1.00	9.49		C
ANISOU	1362	CE2 TRP B 75	1245	1235	1128	176	88	119	C
ATOM	1363	CE3 TRP B 75	27.897	28.554	-13.620	1.00	9.85		C
ANISOU	1363	CE3 TRP B 75	1252	1195	1294	-140	10	28	C
ATOM	1364	CZ2 TRP B 75	29.538	29.976	-11.755	1.00	9.66		C
ANISOU	1364	CZ2 TRP B 75	1217	1514	941	266	364	215	C
ATOM	1365	CZ3 TRP B 75	27.461	29.649	-12.894	1.00	10.65		C
ANISOU	1365	CZ3 TRP B 75	1105	1281	1660	-20	219	175	C
ATOM	1366	CH2 TRP B 75	28.257	30.352	-11.980	1.00	10.80		C
ANISOU	1366	CH2 TRP B 75	1254	1476	1375	199	371	183	C
ATOM	1367	N THR B 76	31.081	23.641	-13.834	1.00	7.76		N
ANISOU	1367	N THR B 76	1163	1184	602	25	50	-84	N
ATOM	1368	CA THR B 76	32.071	22.954	-13.019	1.00	8.13		C
ANISOU	1368	CA THR B 76	1173	1337	578	-52	91	-122	C
ATOM	1369	C THR B 76	33.457	23.521	-13.236	1.00	7.68		C
ANISOU	1369	C THR B 76	1163	1121	634	-133	82	-182	C
ATOM	1370	O THR B 76	33.789	23.840	-14.366	1.00	8.57		O
ANISOU	1370	O THR B 76	1019	1557	678	-66	71	-140	O
ATOM	1371	CB THR B 76	32.146	21.453	-13.394	1.00	8.02		C
ANISOU	1371	CB THR B 76	785	1363	901	-143	73	56	C
ATOM	1372	OG1 THR B 76	30.862	20.868	-13.254	1.00	9.74		O
ANISOU	1372	OG1 THR B 76	1004	1482	1216	-36	238	120	O
ATOM	1373	CG2 THR B 76	33.096	20.679	-12.502	1.00	8.47		C
ANISOU	1373	CG2 THR B 76	1322	1190	707	-30	-99	16	C
ATOM	1374	N VAL B 77	34.204	23.586	-12.147	1.00	8.58		N
ANISOU	1374	N VAL B 77	1156	1413	690	-21	60	-53	N
ATOM	1375	CA VAL B 77	35.632	23.810	-12.167	1.00	8.53		C
ANISOU	1375	CA VAL B 77	1044	1226	971	-140	222	83	C
ATOM	1376	C VAL B 77	36.329	22.659	-11.454	1.00	8.46		C
ANISOU	1376	C VAL B 77	1097	1337	781	-43	87	37	C
ATOM	1377	O VAL B 77	35.977	22.408	-10.305	1.00	10.26		O
ANISOU	1377	O VAL B 77	984	2027	888	-132	131	-117	O
ATOM	1378	CB VAL B 77	36.034	25.113	-11.467	1.00	8.72		C
ANISOU	1378	CB VAL B 77	1056	1360	896	-117	125	105	C
ATOM	1379	CG1 VAL B 77	37.527	25.264	-11.278	1.00	10.64		C
ANISOU	1379	CG1 VAL B 77	1201	1642	1201	200	-114	-420	C
ATOM	1380	CG2 VAL B 77	35.547	26.306	-12.297	1.00	9.06		C
ANISOU	1380	CG2 VAL B 77	1319	1170	951	-165	-18	260	C
ATOM	1381	N ALA B 78	37.273	22.008	-12.078	1.00	8.10		N
ANISOU	1381	N ALA B 78	1050	1259	770	-102	29	-26	N
ATOM	1382	CA ALA B 78	38.225	21.159	-11.378	1.00	9.13		C
ANISOU	1382	CA ALA B 78	1142	1399	929	-109	-113	-45	C
ATOM	1383	C ALA B 78	39.473	22.006	-11.087	1.00	8.68		C
ANISOU	1383	C ALA B 78	1249	1097	953	-189	-228	-275	C
ATOM	1384	O ALA B 78	40.001	22.643	-11.999	1.00	9.72		O
ANISOU	1384	O ALA B 78	1326	1580	787	-1	36	-111	O
ATOM	1385	CB ALA B 78	38.580	19.876	-12.128	1.00	12.06		C
ANISOU	1385	CB ALA B 78	1453	1288	1840	-196	-42	108	C
ATOM	1386	N TRP B 79	39.899	21.972	-9.820	1.00	9.44		N
ANISOU	1386	N TRP B 79	1007	1738	843	-35	-66	-137	N
ATOM	1387	CA TRP B 79	40.900	22.953	-9.370	1.00	10.43		C
ANISOU	1387	CA TRP B 79	957	2083	922	77	26	10	C

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ATOM 1388 C TRP B 79	42.346	22.524	-9.608	1.00	9.50		C
ANISOU 1388 C TRP B 79	1041	1609	960	37	-54	13	C
ATOM 1389 O TRP B 79	43.187	22.513	-8.721	1.00	9.68		O
ANISOU 1389 O TRP B 79	1101	1574	1004	-56	-155	-1	O
ATOM 1390 CB TRP B 79	40.649	23.267	-7.903	1.00	10.49		C
ANISOU 1390 CB TRP B 79	1411	1634	939	-367	-73	55	C
ATOM 1391 CG TRP B 79	39.288	23.883	-7.693	1.00	8.82		C
ANISOU 1391 CG TRP B 79	1212	1304	834	-21	-163	73	C
ATOM 1392 CD1 TRP B 79	38.158	23.269	-7.218	1.00	9.60		C
ANISOU 1392 CD1 TRP B 79	1287	1460	902	-27	-199	-297	C
ATOM 1393 CD2 TRP B 79	38.949	25.254	-7.946	1.00	9.01		C
ANISOU 1393 CD2 TRP B 79	1099	1323	999	-44	4	-32	C
ATOM 1394 NE1 TRP B 79	37.164	24.205	-7.188	1.00	9.65		N
ANISOU 1394 NE1 TRP B 79	1133	1380	1153	117	-243	-192	N
ATOM 1395 CE2 TRP B 79	37.591	25.423	-7.622	1.00	8.63		C
ANISOU 1395 CE2 TRP B 79	1112	1266	902	57	30	51	C
ATOM 1396 CE3 TRP B 79	39.691	26.338	-8.435	1.00	9.98		C
ANISOU 1396 CE3 TRP B 79	1233	1313	1247	196	44	167	C
ATOM 1397 CZ2 TRP B 79	36.950	26.639	-7.762	1.00	9.17		C
ANISOU 1397 CZ2 TRP B 79	989	1239	1256	110	-19	25	C
ATOM 1398 CZ3 TRP B 79	39.043	27.538	-8.570	1.00	9.67		C
ANISOU 1398 CZ3 TRP B 79	1293	1358	1023	197	146	-79	C
ATOM 1399 CH2 TRP B 79	37.691	27.689	-8.238	1.00	9.25		C
ANISOU 1399 CH2 TRP B 79	1342	1258	915	193	290	159	C
ATOM 1400 N LYS B 80	42.587	22.226	-10.889	1.00	9.68		N
ANISOU 1400 N LYS B 80	994	1653	1030	-36	-1	150	N
ATOM 1401 CA LYS B 80	43.894	21.887	-11.387	1.00	9.66		C
ANISOU 1401 CA LYS B 80	986	1396	1291	0	107	-39	C
ATOM 1402 C LYS B 80	44.197	22.823	-12.549	1.00	10.27		C
ANISOU 1402 C LYS B 80	992	1674	1235	-16	36	-153	C
ATOM 1403 O LYS B 80	43.388	22.968	-13.461	1.00	11.02		O
ANISOU 1403 O LYS B 80	1138	1763	1287	-20	-3	-140	O
ATOM 1404 CB LYS B 80	43.973	20.438	-11.852	1.00	10.70		C
ANISOU 1404 CB LYS B 80	760	1492	1814	215	237	217	C
ATOM 1405 CG LYS B 80	45.277	20.044	-12.491	1.00	16.20		C
ANISOU 1405 CG LYS B 80	1219	2209	2726	-200	691	523	C
ATOM 1406 CD LYS B 80	45.308	18.635	-13.081	1.00	16.57		C
ANISOU 1406 CD LYS B 80	1536	2316	2442	-416	214	593	C
ATOM 1407 CE LYS B 80	46.575	18.397	-13.897	1.00	25.29		C
ANISOU 1407 CE LYS B 80	2737	2293	4578	-806	1638	689	C
ATOM 1408 NZ LYS B 80	46.883	19.435	-14.942	1.00	44.83		N
ANISOU 1408 NZ LYS B 80	5232	4897	6905	-1707	4279	-1356	N
ATOM 1409 N ASN B 81	45.354	23.439	-12.487	1.00	10.36		N
ANISOU 1409 N ASN B 81	1129	1661	1147	79	143	-116	N
ATOM 1410 CA ASN B 81	45.831	24.217	-13.617	1.00	10.84		C
ANISOU 1410 CA ASN B 81	1181	1721	1218	-229	596	-80	C
ATOM 1411 C ASN B 81	47.348	24.058	-13.615	1.00	10.73		C
ANISOU 1411 C ASN B 81	1140	1817	1118	-10	269	84	C
ATOM 1412 O ASN B 81	47.891	23.161	-12.998	1.00	13.12		O
ANISOU 1412 O ASN B 81	1345	2029	1611	-255	130	3	O
ATOM 1413 CB ASN B 81	45.332	25.663	-13.611	1.00	9.97		C
ANISOU 1413 CB ASN B 81	1044	1494	1250	210	290	-25	C
ATOM 1414 CG ASN B 81	45.859	26.479	-12.447	1.00	10.90		C
ANISOU 1414 CG ASN B 81	1415	1820	908	117	343	-25	C
ATOM 1415 OD1 ASN B 81	46.756	26.072	-11.720	1.00	11.89		O
ANISOU 1415 OD1 ASN B 81	1284	2168	1068	62	277	59	O

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ATOM 1416 ND2 ASN B 81	45.292	27.669	-12.290	1.00	11.39		N
ANISOU 1416 ND2 ASN B 81	1265	1829	1234	214	274	205	N
ATOM 1417 N ASN B 82	48.042	24.910	-14.369	1.00	14.09		N
ANISOU 1417 N ASN B 82	1088	2450	1814	13	407	-274	N
ATOM 1418 CA ASN B 82	49.470	24.829	-14.528	1.00	15.47		C
ANISOU 1418 CA ASN B 82	1075	2853	1947	162	449	27	C
ATOM 1419 C ASN B 82	50.186	25.254	-13.261	1.00	17.17		C
ANISOU 1419 C ASN B 82	1264	3247	2015	-438	47	-128	C
ATOM 1420 O ASN B 82	51.400	25.082	-13.148	1.00	21.19		O
ANISOU 1420 O ASN B 82	1223	4227	2603	-300	-5	306	O
ATOM 1421 CB ASN B 82	49.945	25.765	-15.650	1.00	22.98		C
ANISOU 1421 CB ASN B 82	1861	4856	2015	949	567	-628	C
ATOM 1422 CG ASN B 82	49.608	25.354	-17.051	1.00	33.70		C
ANISOU 1422 CG ASN B 82	3977	6872	1954	977	427	-327	C
ATOM 1423 OD1 ASN B 82	49.373	24.173	-17.307	1.00	36.66		O
ANISOU 1423 OD1 ASN B 82	3769	6995	3164	-817	744	1782	O
ATOM 1424 ND2 ASN B 82	49.583	26.329	-17.959	1.00	51.80		N
ANISOU 1424 ND2 ASN B 82	6913	10493	2275	3584	516	-2453	N
ATOM 1425 N TYR B 83	49.472	25.857	-12.332	1.00	14.25		N
ANISOU 1425 N TYR B 83	1329	2568	1517	150	272	-461	N
ATOM 1426 CA TYR B 83	50.150	26.356	-11.148	1.00	13.26		C
ANISOU 1426 CA TYR B 83	748	2523	1768	380	152	-577	C
ATOM 1427 C TYR B 83	49.927	25.499	-9.934	1.00	13.90		C
ANISOU 1427 C TYR B 83	997	2704	1581	378	87	-502	C
ATOM 1428 O TYR B 83	50.781	25.441	-9.056	1.00	16.63		O
ANISOU 1428 O TYR B 83	1512	2867	1939	478	-295	-633	O
ATOM 1429 CB TYR B 83	49.673	27.781	-10.815	1.00	14.78		C
ANISOU 1429 CB TYR B 83	1268	2631	1718	280	29	-370	C
ATOM 1430 CG TYR B 83	49.955	28.620	-12.039	1.00	15.82		C
ANISOU 1430 CG TYR B 83	1193	2615	2202	388	-225	-757	C
ATOM 1431 CD1 TYR B 83	51.214	29.143	-12.268	1.00	19.61		C
ANISOU 1431 CD1 TYR B 83	1518	3088	2843	943	-618	-1400	C
ATOM 1432 CD2 TYR B 83	48.941	28.831	-12.929	1.00	14.43		C
ANISOU 1432 CD2 TYR B 83	1202	2562	1719	282	-85	-236	C
ATOM 1433 CE1 TYR B 83	51.450	29.901	-13.391	1.00	17.93		C
ANISOU 1433 CE1 TYR B 83	1323	2696	2792	392	-260	-1192	C
ATOM 1434 CE2 TYR B 83	49.179	29.573	-14.050	1.00	15.24		C
ANISOU 1434 CE2 TYR B 83	1492	2602	1696	422	-245	-272	C
ATOM 1435 CZ TYR B 83	50.431	30.095	-14.270	1.00	16.37		C
ANISOU 1435 CZ TYR B 83	1413	2742	2066	298	-130	-653	C
ATOM 1436 OH TYR B 83	50.656	30.844	-15.402	1.00	22.69		O
ANISOU 1436 OH TYR B 83	1636	4270	2716	276	-64	-1616	O
ATOM 1437 N ARG B 84	48.793	24.880	-9.803	1.00	14.80		N
ANISOU 1437 N ARG B 84	1582	2643	1398	884	52	-498	N
ATOM 1438 CA ARG B 84	48.380	24.210	-8.590	1.00	14.45		C
ANISOU 1438 CA ARG B 84	1358	2561	1570	516	-99	-737	C
ATOM 1439 C ARG B 84	47.353	23.110	-8.868	1.00	12.76		C
ANISOU 1439 C ARG B 84	371	2518	1959	114	176	-786	C
ATOM 1440 O ARG B 84	46.636	23.180	-9.861	1.00	13.70		O
ANISOU 1440 O ARG B 84	1181	2256	1769	412	-24	-494	O
ATOM 1441 CB ARG B 84	47.659	25.163	-7.624	1.00	20.40		C
ANISOU 1441 CB ARG B 84	2223	3834	1696	755	343	35	C
ATOM 1442 CG ARG B 84	48.510	26.281	-7.078	1.00	24.13		C
ANISOU 1442 CG ARG B 84	3016	3681	2473	664	161	382	C
ATOM 1443 CD ARG B 84	47.617	26.853	-6.010	1.00	22.38		C
ANISOU 1443 CD ARG B 84	3397	2099	3008	-1422	-208	-354	C

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ATOM 1444 NE ARG B 84	48.242	28.049	-5.552	1.00	24.41		N
ANISOU 1444 NE ARG B 84	2059	3166	4049	-899	588	375	N
ATOM 1445 CZ ARG B 84	47.997	28.590	-4.381	1.00	24.80		C
ANISOU 1445 CZ ARG B 84	1720	3502	4202	61	766	762	C
ATOM 1446 NH1 ARG B 84	48.665	29.698	-4.139	1.00	29.85		N
ANISOU 1446 NH1 ARG B 84	3148	5211	2984	1886	-355	24	N
ATOM 1447 NH2 ARG B 84	47.128	28.055	-3.525	1.00	22.06		N
ANISOU 1447 NH2 ARG B 84	2238	3668	2478	634	-808	-305	N
ATOM 1448 N ASN B 85	47.271	22.112	-8.012	1.00	12.83		N
ANISOU 1448 N ASN B 85	1214	1982	1678	186	0	-319	N
ATOM 1449 CA ASN B 85	46.193	21.138	-8.056	1.00	11.53		C
ANISOU 1449 CA ASN B 85	1189	1868	1325	118	68	-214	C
ATOM 1450 C ASN B 85	45.700	20.882	-6.647	1.00	11.98		C
ANISOU 1450 C ASN B 85	1151	2134	1268	28	8	-269	C
ATOM 1451 O ASN B 85	46.405	20.336	-5.807	1.00	15.42		O
ANISOU 1451 O ASN B 85	1331	3159	1367	-15	-229	-419	O
ATOM 1452 CB ASN B 85	46.709	19.858	-8.678	1.00	11.99		C
ANISOU 1452 CB ASN B 85	1098	1961	1497	51	84	-165	C
ATOM 1453 CG ASN B 85	45.540	18.929	-8.965	1.00	11.12		C
ANISOU 1453 CG ASN B 85	1014	1866	1346	38	383	-99	C
ATOM 1454 OD1 ASN B 85	44.415	19.210	-8.567	1.00	13.00		O
ANISOU 1454 OD1 ASN B 85	947	2346	1646	-170	289	-130	O
ATOM 1455 ND2 ASN B 85	45.853	17.840	-9.628	1.00	13.84		N
ANISOU 1455 ND2 ASN B 85	1379	2284	1595	-6	268	386	N
ATOM 1456 N ALA B 86	44.474	21.269	-6.390	1.00	12.45		N
ANISOU 1456 N ALA B 86	1325	2147	1259	-100	74	-92	N
ATOM 1457 CA ALA B 86	43.857	21.156	-5.071	1.00	12.05		C
ANISOU 1457 CA ALA B 86	1350	2035	1192	78	64	3	C
ATOM 1458 C ALA B 86	43.125	19.834	-4.873	1.00	11.24		C
ANISOU 1458 C ALA B 86	1123	1909	1239	-79	-203	-89	C
ATOM 1459 O ALA B 86	42.612	19.538	-3.784	1.00	12.76		O
ANISOU 1459 O ALA B 86	1741	1845	1263	20	-41	-137	O
ATOM 1460 CB ALA B 86	42.889	22.336	-4.832	1.00	14.97		C
ANISOU 1460 CB ALA B 86	1756	1869	2063	162	726	21	C
ATOM 1461 N HIS B 87	43.078	19.045	-5.941	1.00	11.53		N
ANISOU 1461 N HIS B 87	1335	1824	1223	-87	-48	-143	N
ATOM 1462 CA HIS B 87	42.396	17.749	-5.938	1.00	11.22		C
ANISOU 1462 CA HIS B 87	1192	1602	1469	-337	0	-96	C
ATOM 1463 C HIS B 87	40.961	17.892	-5.440	1.00	10.51		C
ANISOU 1463 C HIS B 87	1115	1987	892	-201	-216	-282	C
ATOM 1464 O HIS B 87	40.535	17.257	-4.490	1.00	13.31		O
ANISOU 1464 O HIS B 87	1298	2403	1354	-282	-168	-812	O
ATOM 1465 CB HIS B 87	43.162	16.750	-5.083	1.00	11.99		C
ANISOU 1465 CB HIS B 87	1347	1747	1460	-519	89	-108	C
ATOM 1466 CG HIS B 87	44.562	16.507	-5.527	1.00	12.63		C
ANISOU 1466 CG HIS B 87	1397	2037	1367	-624	18	-429	C
ATOM 1467 ND1 HIS B 87	44.924	16.132	-6.792	1.00	12.80		N
ANISOU 1467 ND1 HIS B 87	1121	2002	1741	-164	243	12	N
ATOM 1468 CD2 HIS B 87	45.727	16.587	-4.838	1.00	16.53		C
ANISOU 1468 CD2 HIS B 87	1380	2984	1917	-656	-101	161	C
ATOM 1469 CE1 HIS B 87	46.247	15.985	-6.868	1.00	14.01		C
ANISOU 1469 CE1 HIS B 87	1097	2387	1840	-156	99	-124	C
ATOM 1470 NE2 HIS B 87	46.759	16.259	-5.684	1.00	17.10		N
ANISOU 1470 NE2 HIS B 87	1337	3251	1908	-222	45	219	N
ATOM 1471 N SER B 88	40.246	18.752	-6.150	1.00	10.57		N
ANISOU 1471 N SER B 88	993	2127	897	-199	61	-521	N

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ATOM 1472 CA SER B 88	38.909	19.146	-5.775	1.00	9.72		C
ANISOU 1472 CA SER B 88	984	1808	902	-78	116	-296	C
ATOM 1473 C SER B 88	38.212	19.717	-7.002	1.00	9.47		C
ANISOU 1473 C SER B 88	956	1532	1108	-220	174	-398	C
ATOM 1474 O SER B 88	38.831	20.041	-8.010	1.00	9.95		O
ANISOU 1474 O SER B 88	1126	1768	885	-130	167	-275	O
ATOM 1475 CB SER B 88	38.923	20.172	-4.633	1.00	11.00		C
ANISOU 1475 CB SER B 88	1045	1792	1341	252	60	-72	C
ATOM 1476 OG SER B 88	39.511	21.338	-5.159	1.00	12.24		O
ANISOU 1476 OG SER B 88	1222	1860	1571	144	-65	-420	O
ATOM 1477 N ALA B 89	36.896	19.806	-6.907	1.00	9.81		N
ANISOU 1477 N ALA B 89	920	1759	1047	-119	132	-107	N
ATOM 1478 CA ALA B 89	36.067	20.340	-7.973	1.00	8.13		C
ANISOU 1478 CA ALA B 89	768	1438	882	177	93	-42	C
ATOM 1479 C ALA B 89	34.831	20.987	-7.353	1.00	9.33		C
ANISOU 1479 C ALA B 89	984	1484	1076	-25	160	-171	C
ATOM 1480 O ALA B 89	34.282	20.491	-6.352	1.00	8.72		O
ANISOU 1480 O ALA B 89	1129	1193	989	-105	329	-89	O
ATOM 1481 CB ALA B 89	35.674	19.243	-8.928	1.00	10.33		C
ANISOU 1481 CB ALA B 89	1040	1409	1474	180	-33	166	C
ATOM 1482 N THR B 90	34.464	22.132	-7.953	1.00	8.41		N
ANISOU 1482 N THR B 90	995	1538	664	-33	170	-100	N
ATOM 1483 CA THR B 90	33.239	22.785	-7.542	1.00	7.81		C
ANISOU 1483 CA THR B 90	795	1308	862	150	96	-116	C
ATOM 1484 C THR B 90	32.214	22.810	-8.667	1.00	7.99		C
ANISOU 1484 C THR B 90	977	1206	854	262	-8	-114	C
ATOM 1485 O THR B 90	32.581	23.053	-9.805	1.00	9.14		O
ANISOU 1485 O THR B 90	978	1639	855	14	122	-25	O
ATOM 1486 CB ATHR B 90	33.579	24.243	-7.158	0.70	8.47		C
ANISOU 1486 CB ATHR B 90	798	1417	1005	35	-186	66	C
ATOM 1487 CB BTHR B 90	33.426	24.248	-7.108	0.30	7.79		C
ATOM 1488 OG1ATHR B 90	34.589	24.241	-6.145	0.70	8.81		O
ANISOU 1488 OG1ATHR B 90	871	1650	828	88	-150	-97	O
ATOM 1489 OG1BTHR B 90	34.220	24.275	-5.939	0.30	7.85		O
ATOM 1490 CG2ATHR B 90	32.351	24.952	-6.626	0.70	8.43		C
ANISOU 1490 CG2ATHR B 90	1023	1425	756	-145	47	-252	C
ATOM 1491 CG2BTHR B 90	32.075	24.822	-6.706	0.30	10.56		C
ATOM 1492 N THR B 91	30.965	22.578	-8.344	1.00	8.36		N
ANISOU 1492 N THR B 91	943	1498	736	170	-104	-245	N
ATOM 1493 CA THR B 91	29.884	22.857	-9.239	1.00	7.82		C
ANISOU 1493 CA THR B 91	1000	1338	634	50	-92	48	C
ATOM 1494 C THR B 91	28.985	23.943	-8.656	1.00	7.45		C
ANISOU 1494 C THR B 91	1017	1327	487	97	-63	-42	C
ATOM 1495 O THR B 91	28.663	23.933	-7.470	1.00	8.68		O
ANISOU 1495 O THR B 91	1522	1241	537	-234	74	-177	O
ATOM 1496 CB THR B 91	29.033	21.633	-9.509	1.00	7.91		C
ANISOU 1496 CB THR B 91	886	1314	803	-26	-127	-9	C
ATOM 1497 OG1 THR B 91	28.402	21.131	-8.316	1.00	10.07		O
ANISOU 1497 OG1 THR B 91	1575	1209	1041	156	203	51	O
ATOM 1498 CG2 THR B 91	29.838	20.472	-10.081	1.00	8.57		C
ANISOU 1498 CG2 THR B 91	1067	1137	1052	55	75	-137	C
ATOM 1499 N TRP B 92	28.589	24.828	-9.567	1.00	7.62		N
ANISOU 1499 N TRP B 92	1137	1336	424	-2	180	-132	N
ATOM 1500 CA TRP B 92	27.640	25.880	-9.233	1.00	7.46		C
ANISOU 1500 CA TRP B 92	930	1146	757	186	32	21	C
ATOM 1501 C TRP B 92	26.340	25.581	-9.999	1.00	7.93		C

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ANISOU 1501 C TRP B 92	1004	1245	765	192	57	94	C
ATOM 1502 O TRP B 92	26.413	25.313	-11.213	1.00	8.47		O
ANISOU 1502 O TRP B 92	905	1583	729	-111	-50	59	O
ATOM 1503 CB TRP B 92	28.157	27.221	-9.653	1.00	8.15		C
ANISOU 1503 CB TRP B 92	990	1239	868	188	-110	-90	C
ATOM 1504 CG TRP B 92	29.289	27.849	-8.941	1.00	7.80		C
ANISOU 1504 CG TRP B 92	831	1280	853	243	198	41	C
ATOM 1505 CD1 TRP B 92	29.197	28.821	-8.012	1.00	9.53		C
ANISOU 1505 CD1 TRP B 92	1064	1436	1122	-187	-364	224	C
ATOM 1506 CD2 TRP B 92	30.687	27.570	-9.109	1.00	7.80		C
ANISOU 1506 CD2 TRP B 92	884	1588	492	126	60	-157	C
ATOM 1507 NE1 TRP B 92	30.438	29.169	-7.570	1.00	8.67		N
ANISOU 1507 NE1 TRP B 92	1006	1648	640	198	-48	-32	N
ATOM 1508 CE2 TRP B 92	31.376	28.417	-8.231	1.00	8.39		C
ANISOU 1508 CE2 TRP B 92	973	1526	688	299	73	-186	C
ATOM 1509 CE3 TRP B 92	31.402	26.668	-9.915	1.00	8.32		C
ANISOU 1509 CE3 TRP B 92	991	1453	717	-107	133	-244	C
ATOM 1510 CZ2 TRP B 92	32.773	28.377	-8.161	1.00	9.29		C
ANISOU 1510 CZ2 TRP B 92	1011	1096	1421	174	-102	-74	C
ATOM 1511 CZ3 TRP B 92	32.784	26.648	-9.845	1.00	9.20		C
ANISOU 1511 CZ3 TRP B 92	997	1691	806	-26	96	-105	C
ATOM 1512 CH2 TRP B 92	33.442	27.512	-8.964	1.00	9.15		C
ANISOU 1512 CH2 TRP B 92	1185	1218	1074	-162	-167	-346	C
ATOM 1513 N SER B 93	25.230	25.618	-9.296	1.00	8.10		N
ANISOU 1513 N SER B 93	851	1627	600	13	-87	-192	N
ATOM 1514 CA SER B 93	23.909	25.389	-9.865	1.00	8.89		C
ANISOU 1514 CA SER B 93	980	1415	983	-33	-282	-116	C
ATOM 1515 C SER B 93	23.066	26.617	-9.553	1.00	8.71		C
ANISOU 1515 C SER B 93	852	1492	966	-1	-61	-148	C
ATOM 1516 O SER B 93	23.044	27.064	-8.400	1.00	9.00		O
ANISOU 1516 O SER B 93	1117	1331	971	50	-145	-152	O
ATOM 1517 CB SER B 93	23.303	24.162	-9.250	1.00	9.65		C
ANISOU 1517 CB SER B 93	1092	1463	1111	109	-338	-160	C
ATOM 1518 OG SER B 93	22.110	23.839	-9.865	1.00	11.31		O
ANISOU 1518 OG SER B 93	1106	1845	1345	170	-334	-278	O
ATOM 1519 N GLY B 94	22.423	27.202	-10.545	1.00	8.97		N
ANISOU 1519 N GLY B 94	1264	1322	821	-173	-26	-29	N
ATOM 1520 CA GLY B 94	21.687	28.414	-10.207	1.00	9.31		C
ANISOU 1520 CA GLY B 94	1214	1503	820	-214	30	-33	C
ATOM 1521 C GLY B 94	20.846	28.916	-11.357	1.00	8.96		C
ANISOU 1521 C GLY B 94	978	1463	962	-35	-64	-121	C
ATOM 1522 O GLY B 94	20.451	28.157	-12.254	1.00	9.61		O
ANISOU 1522 O GLY B 94	1059	1605	987	-114	-61	-4	O
ATOM 1523 N GLN B 95	20.582	30.212	-11.363	1.00	9.93		N
ANISOU 1523 N GLN B 95	1300	1497	975	-3	-217	-125	N
ATOM 1524 CA GLN B 95	19.848	30.779	-12.468	1.00	9.46		C
ANISOU 1524 CA GLN B 95	1066	1495	1034	-95	-101	-183	C
ATOM 1525 C GLN B 95	20.322	32.214	-12.691	1.00	10.08		C
ANISOU 1525 C GLN B 95	1524	1380	928	-204	-56	36	C
ATOM 1526 O GLN B 95	20.706	32.909	-11.761	1.00	10.41		O
ANISOU 1526 O GLN B 95	1534	1507	913	-49	10	65	O
ATOM 1527 CB GLN B 95	18.370	30.673	-12.255	1.00	12.63		C
ANISOU 1527 CB GLN B 95	1158	2217	1426	-297	65	-439	C
ATOM 1528 CG GLN B 95	17.851	31.268	-11.012	1.00	15.22		C
ANISOU 1528 CG GLN B 95	1471	2848	1466	-435	271	-367	C
ATOM 1529 CD GLN B 95	16.370	31.131	-10.726	1.00	14.74		C

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ANISOU 1529	CD GLN B 95	1566	2126	1909	-744	522	-1206	C
ATOM 1530	OE1 GLN B 95	15.828	30.834	-9.645	1.00	17.08		O
ANISOU 1530	OE1 GLN B 95	1779	3174	1537	3	295	-801	O
ATOM 1531	NE2 GLN B 95	15.659	31.421	-11.770	1.00	11.11		N
ANISOU 1531	NE2 GLN B 95	1133	1709	1381	-794	876	-595	N
ATOM 1532	N TYR B 96	20.293	32.567	-13.989	1.00	9.47		N
ANISOU 1532	N TYR B 96	1519	1116	961	51	-51	77	N
ATOM 1533	CA TYR B 96	20.541	33.923	-14.435	1.00	9.29		C
ANISOU 1533	CA TYR B 96	1309	1129	1094	216	-67	126	C
ATOM 1534	C TYR B 96	19.239	34.693	-14.416	1.00	10.08		C
ANISOU 1534	C TYR B 96	1516	1201	1112	35	-145	-135	C
ATOM 1535	O TYR B 96	18.211	34.197	-14.896	1.00	11.39		O
ANISOU 1535	O TYR B 96	1393	1317	1618	-24	-109	8	O
ATOM 1536	CB TYR B 96	21.140	33.829	-15.829	1.00	10.37		C
ANISOU 1536	CB TYR B 96	1525	1510	905	220	-154	-67	C
ATOM 1537	CG TYR B 96	21.149	35.108	-16.603	1.00	11.21		C
ANISOU 1537	CG TYR B 96	1537	1521	1201	84	-129	-141	C
ATOM 1538	CD1 TYR B 96	22.193	36.000	-16.509	1.00	12.06		C
ANISOU 1538	CD1 TYR B 96	1850	1412	1319	200	-314	-244	C
ATOM 1539	CD2 TYR B 96	20.116	35.400	-17.475	1.00	14.45		C
ANISOU 1539	CD2 TYR B 96	1758	1945	1786	196	-461	-571	C
ATOM 1540	CE1 TYR B 96	22.154	37.165	-17.263	1.00	13.49		C
ANISOU 1540	CE1 TYR B 96	1829	1518	1780	-34	-93	-453	C
ATOM 1541	CE2 TYR B 96	20.084	36.559	-18.201	1.00	14.38		C
ANISOU 1541	CE2 TYR B 96	1906	1554	2004	-308	-335	-265	C
ATOM 1542	CZ TYR B 96	21.122	37.458	-18.100	1.00	14.03		C
ANISOU 1542	CZ TYR B 96	1845	1740	1746	-165	25	-650	C
ATOM 1543	OH TYR B 96	21.103	38.608	-18.818	1.00	18.52		O
ANISOU 1543	OH TYR B 96	2614	2283	2138	-89	-21	-1268	O
ATOM 1544	N VAL B 97	19.359	35.898	-13.900	1.00	11.56		N
ANISOU 1544	N VAL B 97	1408	1284	1700	33	30	74	N
ATOM 1545	CA VAL B 97	18.231	36.811	-13.817	1.00	14.01		C
ANISOU 1545	CA VAL B 97	1659	1449	2214	-188	-160	174	C
ATOM 1546	C VAL B 97	18.666	38.097	-14.534	1.00	14.64		C
ANISOU 1546	C VAL B 97	2031	1334	2196	-192	-342	183	C
ATOM 1547	O VAL B 97	19.536	38.809	-14.109	1.00	17.41		O
ANISOU 1547	O VAL B 97	2893	1294	2428	174	-788	78	O
ATOM 1548	CB VAL B 97	17.844	37.105	-12.371	1.00	15.89		C
ANISOU 1548	CB VAL B 97	1631	1962	2446	-450	247	217	C
ATOM 1549	CG1 VAL B 97	16.608	38.004	-12.314	1.00	23.76		C
ANISOU 1549	CG1 VAL B 97	1269	3346	4413	-729	651	291	C
ATOM 1550	CG2 VAL B 97	17.560	35.850	-11.559	1.00	21.72		C
ANISOU 1550	CG2 VAL B 97	2531	2510	3211	-7	1670	-25	C
ATOM 1551	N GLY B 98	18.071	38.377	-15.706	1.00	16.56		N
ANISOU 1551	N GLY B 98	2108	1775	2411	-64	-525	-19	N
ATOM 1552	CA GLY B 98	18.487	39.482	-16.504	1.00	18.97		C
ANISOU 1552	CA GLY B 98	2864	1840	2506	-438	-135	-224	C
ATOM 1553	C GLY B 98	17.803	40.737	-16.001	1.00	22.82		C
ANISOU 1553	C GLY B 98	3492	1867	3312	-836	-1086	255	C
ATOM 1554	O GLY B 98	17.200	40.712	-14.929	1.00	29.88		O
ANISOU 1554	O GLY B 98	5283	3089	2980	-2239	-799	750	O
ATOM 1555	N GLY B 99	17.889	41.777	-16.811	1.00	32.61		N
ANISOU 1555	N GLY B 99	4711	1998	5681	-745	-640	-641	N
ATOM 1556	CA GLY B 99	17.360	43.071	-16.344	1.00	30.88		C
ANISOU 1556	CA GLY B 99	4087	2076	5572	-822	-228	-933	C
ATOM 1557	C GLY B 99	18.471	44.075	-16.158	1.00	30.95		C

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ANISOU 1557 C GLY B 99	3976	2087	5698	-960	-12	-198	C
ATOM 1558 O GLY B 99	19.599	43.832	-16.597	1.00	30.65		O
ANISOU 1558 O GLY B 99	4313	2255	5079	-702	572	-728	O
ATOM 1559 N ALA B 100	18.214	45.196	-15.507	1.00	30.82		N
ANISOU 1559 N ALA B 100	4626	1400	5687	-1647	-501	-919	N
ATOM 1560 CA ALA B 100	19.223	46.262	-15.548	1.00	33.11		C
ANISOU 1560 CA ALA B 100	5687	1437	5457	-1153	9	-771	C
ATOM 1561 C ALA B 100	20.467	45.919	-14.736	1.00	30.77		C
ANISOU 1561 C ALA B 100	4428	1783	5481	-716	715	-551	C
ATOM 1562 O ALA B 100	21.525	46.472	-15.048	1.00	43.26		O
ANISOU 1562 O ALA B 100	4493	2899	9046	-1378	2183	-2222	O
ATOM 1563 CB ALA B 100	18.677	47.590	-15.046	1.00	31.51		C
ANISOU 1563 CB ALA B 100	4594	2084	5294	-886	-10	119	C
ATOM 1564 N GLU B 101	20.289	45.091	-13.744	1.00	24.13		N
ANISOU 1564 N GLU B 101	3354	1007	4805	-945	362	51	N
ATOM 1565 CA GLU B 101	21.335	44.619	-12.811	1.00	27.96		C
ANISOU 1565 CA GLU B 101	3151	1408	6064	-1323	50	59	C
ATOM 1566 C GLU B 101	21.326	43.099	-12.852	1.00	20.55		C
ANISOU 1566 C GLU B 101	2216	1389	4205	-643	413	-266	C
ATOM 1567 O GLU B 101	20.921	42.409	-11.952	1.00	23.63		O
ANISOU 1567 O GLU B 101	3464	2368	3145	44	338	135	O
ATOM 1568 CB GLU B 101	21.119	45.168	-11.417	1.00	33.06		C
ANISOU 1568 CB GLU B 101	5190	1568	5805	-1070	-1328	452	C
ATOM 1569 CG GLU B 101	21.330	44.472	-10.112	1.00	44.76		C
ANISOU 1569 CG GLU B 101	7205	3622	6180	-1383	-308	-764	C
ATOM 1570 CD GLU B 101	20.180	43.640	-9.564	1.00	48.72		C
ANISOU 1570 CD GLU B 101	6780	4361	7372	-2047	646	-1175	C
ATOM 1571 OE1 GLU B 101	19.074	44.189	-9.352	1.00	61.38		O
ANISOU 1571 OE1 GLU B 101	7272	7368	8682	-3940	767	-4481	O
ATOM 1572 OE2 GLU B 101	20.421	42.414	-9.374	1.00	38.88		O
ANISOU 1572 OE2 GLU B 101	5509	2985	6277	-299	-1032	1584	O
ATOM 1573 N ALA B 102	21.827	42.606	-13.999	1.00	17.76		N
ANISOU 1573 N ALA B 102	2606	952	3191	9	-45	-702	N
ATOM 1574 CA ALA B 102	21.815	41.172	-14.210	1.00	14.99		C
ANISOU 1574 CA ALA B 102	2202	1009	2486	241	-525	-541	C
ATOM 1575 C ALA B 102	22.577	40.473	-13.092	1.00	13.69		C
ANISOU 1575 C ALA B 102	2096	852	2254	-38	-512	-134	C
ATOM 1576 O ALA B 102	23.578	40.956	-12.562	1.00	14.59		O
ANISOU 1576 O ALA B 102	2189	1152	2204	26	-438	158	O
ATOM 1577 CB ALA B 102	22.412	40.751	-15.533	1.00	22.38		C
ANISOU 1577 CB ALA B 102	4243	2002	2260	-64	-454	-280	C
ATOM 1578 N ARG B 103	22.057	39.286	-12.771	1.00	11.60		N
ANISOU 1578 N ARG B 103	2025	895	1488	-125	-233	6	N
ATOM 1579 CA ARG B 103	22.623	38.533	-11.651	1.00	11.77		C
ANISOU 1579 CA ARG B 103	1476	1322	1676	12	-66	-289	C
ATOM 1580 C ARG B 103	22.632	37.049	-11.997	1.00	13.19		C
ANISOU 1580 C ARG B 103	2126	1175	1709	181	-568	-536	C
ATOM 1581 O ARG B 103	21.740	36.597	-12.682	1.00	14.26		O
ANISOU 1581 O ARG B 103	2179	1242	1995	60	-727	-388	O
ATOM 1582 CB ARG B 103	21.794	38.799	-10.393	1.00	17.50		C
ANISOU 1582 CB ARG B 103	2246	2557	1844	-449	395	-552	C
ATOM 1583 CG ARG B 103	22.364	38.389	-9.059	1.00	23.45		C
ANISOU 1583 CG ARG B 103	3229	3933	1749	-382	305	-646	C
ATOM 1584 CD ARG B 103	21.655	39.150	-7.932	1.00	29.29		C
ANISOU 1584 CD ARG B 103	4580	4511	2036	-535	408	-8	C
ATOM 1585 NE ARG B 103	22.174	40.518	-7.807	1.00	35.64		N

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ANISOU 1585	NE ARG B 103	5155	3714	4673	-1474	-254	-49	N
ATOM 1586	CZ ARG B 103	22.733	41.077	-6.749	1.00	37.46		C
ANISOU 1586	CZ ARG B 103	5794	3179	5260	-57	-1313	-1240	C
ATOM 1587	NH1 ARG B 103	23.156	42.340	-6.811	1.00	35.56		N
ANISOU 1587	NH1 ARG B 103	4144	3184	6184	-349	885	-895	N
ATOM 1588	NH2 ARG B 103	22.920	40.472	-5.579	1.00	54.62		N
ANISOU 1588	NH2 ARG B 103	8743	4957	7055	1491	-4240	-2874	N
ATOM 1589	N ILE B 104	23.627	36.345	-11.497	1.00	10.28		N
ANISOU 1589	N ILE B 104	1492	1152	1262	208	-30	-251	N
ATOM 1590	CA ILE B 104	23.571	34.883	-11.465	1.00	10.46		C
ANISOU 1590	CA ILE B 104	1678	1177	1117	-14	-201	-110	C
ATOM 1591	C ILE B 104	23.586	34.448	-10.010	1.00	9.62		C
ANISOU 1591	C ILE B 104	1445	1044	1169	111	-356	-144	C
ATOM 1592	O ILE B 104	24.562	34.755	-9.322	1.00	10.38		O
ANISOU 1592	O ILE B 104	1335	1304	1306	191	-318	-153	O
ATOM 1593	CB ILE B 104	24.677	34.233	-12.285	1.00	11.50		C
ANISOU 1593	CB ILE B 104	1577	1484	1307	-360	-193	-424	C
ATOM 1594	CG1 ILE B 104	24.648	34.695	-13.750	1.00	11.01		C
ANISOU 1594	CG1 ILE B 104	1551	1520	1113	-242	-205	-86	C
ATOM 1595	CG2 ILE B 104	24.596	32.716	-12.203	1.00	12.05		C
ANISOU 1595	CG2 ILE B 104	1663	1461	1456	-127	322	-181	C
ATOM 1596	CD1 ILE B 104	25.841	34.233	-14.526	1.00	12.86		C
ANISOU 1596	CD1 ILE B 104	1902	1368	1616	-140	201	176	C
ATOM 1597	N ASN B 105	22.499	33.804	-9.598	1.00	9.10		N
ANISOU 1597	N ASN B 105	984	1415	1058	-165	-181	55	N
ATOM 1598	CA ASN B 105	22.384	33.381	-8.195	1.00	10.17		C
ANISOU 1598	CA ASN B 105	1314	1459	1089	-177	100	131	C
ATOM 1599	C ASN B 105	22.620	31.876	-8.139	1.00	8.68		C
ANISOU 1599	C ASN B 105	1125	1406	768	-71	214	141	C
ATOM 1600	O ASN B 105	21.938	31.184	-8.878	1.00	10.42		O
ANISOU 1600	O ASN B 105	1467	1316	1175	-208	-400	-68	O
ATOM 1601	CB ASN B 105	21.022	33.713	-7.623	1.00	11.25		C
ANISOU 1601	CB ASN B 105	1395	1456	1422	-200	193	356	C
ATOM 1602	CG ASN B 105	20.800	35.205	-7.545	1.00	12.86		C
ANISOU 1602	CG ASN B 105	1632	1430	1823	-227	157	387	C
ATOM 1603	OD1 ASN B 105	21.649	35.936	-7.092	1.00	15.54		O
ANISOU 1603	OD1 ASN B 105	2092	1488	2323	24	-181	278	O
ATOM 1604	ND2 ASN B 105	19.621	35.600	-7.958	1.00	15.90		N
ANISOU 1604	ND2 ASN B 105	1714	1371	2955	-174	-64	102	N
ATOM 1605	N THR B 106	23.573	31.453	-7.320	1.00	8.41		N
ANISOU 1605	N THR B 106	1251	1291	653	35	78	189	N
ATOM 1606	CA THR B 106	23.972	30.078	-7.324	1.00	8.82		C
ANISOU 1606	CA THR B 106	1173	1255	925	111	91	41	C
ATOM 1607	C THR B 106	24.065	29.490	-5.919	1.00	8.64		C
ANISOU 1607	C THR B 106	1034	1374	874	89	118	64	C
ATOM 1608	O THR B 106	24.221	30.219	-4.942	1.00	10.12		O
ANISOU 1608	O THR B 106	1564	1304	978	-74	-3	74	O
ATOM 1609	CB THR B 106	25.362	29.847	-7.973	1.00	8.71		C
ANISOU 1609	CB THR B 106	1231	1146	934	75	175	-124	C
ATOM 1610	OG1 THR B 106	26.402	30.398	-7.151	1.00	10.26		O
ANISOU 1610	OG1 THR B 106	1175	1664	1060	47	148	22	O
ATOM 1611	CG2 THR B 106	25.396	30.487	-9.354	1.00	11.06		C
ANISOU 1611	CG2 THR B 106	1620	1620	962	67	219	-246	C
ATOM 1612	N GLN B 107	23.999	28.159	-5.923	1.00	8.45		N
ANISOU 1612	N GLN B 107	1145	1356	708	-57	-204	84	N
ATOM 1613	CA GLN B 107	24.468	27.360	-4.818	1.00	9.09		C

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ANISOU 1613	CA	GLN B 107	830	1613	1012	-92	-250	-74	C
ATOM 1614	C	GLN B 107	25.544	26.451	-5.382	1.00	8.61		C
ANISOU 1614	C	GLN B 107	960	1441	872	-34	-153	-101	C
ATOM 1615	O	GLN B 107	25.470	26.133	-6.556	1.00	9.83		O
ANISOU 1615	O	GLN B 107	1221	1654	859	-164	-352	-51	O
ATOM 1616	CB	GLN B 107	23.307	26.586	-4.192	1.00	10.37		C
ANISOU 1616	CB	GLN B 107	1007	1796	1137	-115	-58	-221	C
ATOM 1617	CG	GLN B 107	22.352	27.583	-3.550	1.00	15.01		C
ANISOU 1617	CG	GLN B 107	1237	2302	2162	-605	411	-493	C
ATOM 1618	CD	GLN B 107	21.150	27.022	-2.853	1.00	13.68		C
ANISOU 1618	CD	GLN B 107	1089	2350	1759	-274	77	-296	C
ATOM 1619	OE1	GLN B 107	20.085	26.752	-3.429	1.00	18.89		O
ANISOU 1619	OE1	GLN B 107	1756	3054	2366	337	-445	-34	O
ATOM 1620	NE2	GLN B 107	21.339	26.867	-1.594	1.00	15.45		N
ANISOU 1620	NE2	GLN B 107	1396	2815	1661	117	112	-90	N
ATOM 1621	N	TRP B 108	26.525	26.104	-4.541	1.00	8.32		N
ANISOU 1621	N	TRP B 108	1102	1436	623	-301	-90	189	N
ATOM 1622	CA	TRP B 108	27.648	25.334	-5.038	1.00	7.35		C
ANISOU 1622	CA	TRP B 108	872	1165	755	-77	84	-23	C
ATOM 1623	C	TRP B 108	27.999	24.190	-4.072	1.00	7.73		C
ANISOU 1623	C	TRP B 108	984	1074	878	18	164	-143	C
ATOM 1624	O	TRP B 108	27.702	24.219	-2.888	1.00	8.22		O
ANISOU 1624	O	TRP B 108	1036	1263	824	-114	110	-85	O
ATOM 1625	CB	TRP B 108	28.830	26.233	-5.338	1.00	7.77		C
ANISOU 1625	CB	TRP B 108	1154	965	834	58	-74	-144	C
ATOM 1626	CG	TRP B 108	29.331	27.092	-4.258	1.00	8.40		C
ANISOU 1626	CG	TRP B 108	1145	1204	844	44	-68	-20	C
ATOM 1627	CD1	TRP B 108	29.125	28.425	-4.172	1.00	8.64		C
ANISOU 1627	CD1	TRP B 108	1217	1238	829	-56	-89	105	C
ATOM 1628	CD2	TRP B 108	30.132	26.743	-3.112	1.00	8.36		C
ANISOU 1628	CD2	TRP B 108	1248	1222	707	132	32	-120	C
ATOM 1629	NE1	TRP B 108	29.731	28.922	-3.040	1.00	8.78		N
ANISOU 1629	NE1	TRP B 108	1004	1302	1029	-4	-197	131	N
ATOM 1630	CE2	TRP B 108	30.358	27.911	-2.375	1.00	8.03		C
ANISOU 1630	CE2	TRP B 108	828	1272	951	25	-59	69	C
ATOM 1631	CE3	TRP B 108	30.671	25.553	-2.643	1.00	8.22		C
ANISOU 1631	CE3	TRP B 108	1155	1155	812	170	-40	-62	C
ATOM 1632	CZ2	TRP B 108	31.093	27.908	-1.205	1.00	8.62		C
ANISOU 1632	CZ2	TRP B 108	1214	1288	772	70	-17	-65	C
ATOM 1633	CZ3	TRP B 108	31.404	25.563	-1.484	1.00	9.07		C
ANISOU 1633	CZ3	TRP B 108	1310	1249	888	144	-126	-101	C
ATOM 1634	CH2	TRP B 108	31.605	26.738	-0.788	1.00	8.75		C
ANISOU 1634	CH2	TRP B 108	1288	1247	788	226	-107	-124	C
ATOM 1635	N	LEU B 109	28.636	23.193	-4.661	1.00	7.81		N
ANISOU 1635	N	LEU B 109	1163	1197	607	-140	-133	-62	N
ATOM 1636	CA	LEU B 109	29.163	22.009	-4.015	1.00	7.91		C
ANISOU 1636	CA	LEU B 109	992	1251	763	-182	-76	-102	C
ATOM 1637	C	LEU B 109	30.638	21.866	-4.371	1.00	8.24		C
ANISOU 1637	C	LEU B 109	1032	1434	666	-210	-84	224	C
ATOM 1638	O	LEU B 109	30.945	21.749	-5.568	1.00	9.98		O
ANISOU 1638	O	LEU B 109	1114	2073	604	-42	-101	56	O
ATOM 1639	CB	LEU B 109	28.414	20.776	-4.467	1.00	7.61		C
ANISOU 1639	CB	LEU B 109	988	1129	777	-331	1	-116	C
ATOM 1640	CG	LEU B 109	26.923	20.713	-4.095	1.00	7.98		C
ANISOU 1640	CG	LEU B 109	927	1141	966	-275	-9	124	C
ATOM 1641	CD1	LEU B 109	26.245	19.516	-4.772	1.00	12.66		C

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ANISOU 1641	CD1 LEU B 109	1891	1237	1681	329	-433	-123	C
ATOM 1642	CD2 LEU B 109	26.701	20.640	-2.592	1.00	11.20		C
ANISOU 1642	CD2 LEU B 109	1268	1911	1077	-90	255	-179	C
ATOM 1643	N LEU B 110	31.486	21.866	-3.370	1.00	7.69		N
ANISOU 1643	N LEU B 110	1013	1312	597	0	-33	108	N
ATOM 1644	CA LEU B 110	32.938	21.731	-3.561	1.00	7.84		C
ANISOU 1644	CA LEU B 110	946	1214	820	51	-37	-41	C
ATOM 1645	C LEU B 110	33.339	20.394	-2.955	1.00	8.23		C
ANISOU 1645	C LEU B 110	1163	1367	598	-182	188	-40	C
ATOM 1646	O LEU B 110	33.334	20.261	-1.726	1.00	9.35		O
ANISOU 1646	O LEU B 110	1432	1485	635	47	257	-108	O
ATOM 1647	CB LEU B 110	33.681	22.877	-2.939	1.00	10.07		C
ANISOU 1647	CB LEU B 110	1344	1531	949	426	-279	-210	C
ATOM 1648	CG LEU B 110	35.187	22.817	-2.658	1.00	13.57		C
ANISOU 1648	CG LEU B 110	1123	2031	2002	597	24	243	C
ATOM 1649	CD1 LEU B 110	36.022	22.194	-3.717	1.00	16.32		C
ANISOU 1649	CD1 LEU B 110	1872	1893	2435	182	344	189	C
ATOM 1650	CD2 LEU B 110	35.652	24.269	-2.391	1.00	14.11		C
ANISOU 1650	CD2 LEU B 110	1167	1934	2261	445	-88	327	C
ATOM 1651	N THR B 111	33.637	19.425	-3.802	1.00	8.23		N
ANISOU 1651	N THR B 111	1086	1356	686	-228	75	-28	N
ATOM 1652	CA THR B 111	34.056	18.112	-3.393	1.00	9.16		C
ANISOU 1652	CA THR B 111	1200	1413	869	-302	-95	-50	C
ATOM 1653	C THR B 111	35.577	17.995	-3.513	1.00	9.05		C
ANISOU 1653	C THR B 111	1154	1225	1058	-134	-37	-267	C
ATOM 1654	O THR B 111	36.137	18.227	-4.595	1.00	10.73		O
ANISOU 1654	O THR B 111	1393	1686	999	-114	80	-231	O
ATOM 1655	CB THR B 111	33.397	16.979	-4.235	1.00	9.74		C
ANISOU 1655	CB THR B 111	1197	1405	1100	-103	27	-28	C
ATOM 1656	OG1 THR B 111	31.989	17.084	-3.990	1.00	11.07		O
ANISOU 1656	OG1 THR B 111	1227	1555	1424	-122	176	81	O
ATOM 1657	CG2 THR B 111	33.729	15.625	-3.681	1.00	11.31		C
ANISOU 1657	CG2 THR B 111	1615	1421	1260	-318	455	-149	C
ATOM 1658	N SER B 112	36.205	17.594	-2.409	1.00	9.41		N
ANISOU 1658	N SER B 112	1152	1498	923	-376	21	-85	N
ATOM 1659	CA SER B 112	37.603	17.237	-2.424	1.00	10.84		C
ANISOU 1659	CA SER B 112	1150	1743	1226	-334	1	-489	C
ATOM 1660	C SER B 112	37.762	15.723	-2.556	1.00	11.81		C
ANISOU 1660	C SER B 112	1329	1755	1402	-598	280	-736	C
ATOM 1661	O SER B 112	36.970	14.976	-1.964	1.00	13.64		O
ANISOU 1661	O SER B 112	1873	1725	1584	-238	551	-459	O
ATOM 1662	CB SER B 112	38.236	17.725	-1.123	1.00	13.72		C
ANISOU 1662	CB SER B 112	1539	2375	1299	142	-342	-733	C
ATOM 1663	OG SER B 112	38.277	19.136	-1.091	1.00	15.95		O
ANISOU 1663	OG SER B 112	1916	2404	1739	266	0	-148	O
ATOM 1664	N GLY B 113	38.786	15.263	-3.288	1.00	12.73		N
ANISOU 1664	N GLY B 113	1722	1837	1276	-382	466	-379	N
ATOM 1665	CA GLY B 113	39.106	13.852	-3.252	1.00	12.31		C
ANISOU 1665	CA GLY B 113	1521	1882	1275	-521	129	-204	C
ATOM 1666	C GLY B 113	39.532	13.486	-1.851	1.00	12.13		C
ANISOU 1666	C GLY B 113	1637	1640	1332	-289	-44	-66	C
ATOM 1667	O GLY B 113	40.364	14.135	-1.237	1.00	15.01		O
ANISOU 1667	O GLY B 113	1820	1938	1944	-144	-468	-186	O
ATOM 1668	N THR B 114	38.934	12.398	-1.368	1.00	12.13		N
ANISOU 1668	N THR B 114	1263	2002	1346	-270	-125	-351	N
ATOM 1669	CA THR B 114	39.176	11.899	-0.047	1.00	12.84		C

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ANISOU 1669	CA	THR B 114	1629	2005	1245	-465	-67	-222	C
ATOM 1670	C	THR B 114	39.264	10.369	-0.070	1.00	12.41		C
ANISOU 1670	C	THR B 114	1607	1995	1112	-761	120	-212	C
ATOM 1671	O	THR B 114	38.858	9.744	-1.026	1.00	12.82		O
ANISOU 1671	O	THR B 114	1936	1921	1014	-268	194	-417	O
ATOM 1672	CB	THR B 114	38.073	12.255	0.984	1.00	11.90		C
ANISOU 1672	CB	THR B 114	1543	1790	1188	-614	-235	-29	C
ATOM 1673	OG1	THR B 114	36.856	11.599	0.625	1.00	12.97		O
ANISOU 1673	OG1	THR B 114	1658	1942	1327	-370	-56	-98	O
ATOM 1674	CG2	THR B 114	37.831	13.731	0.977	1.00	14.55		C
ANISOU 1674	CG2	THR B 114	1908	1750	1869	-528	-236	-95	C
ATOM 1675	N	THR B 115	39.751	9.803	1.025	1.00	15.05		N
ANISOU 1675	N	THR B 115	2062	2375	1283	-881	-121	-314	N
ATOM 1676	CA	THR B 115	39.564	8.353	1.183	1.00	18.77		C
ANISOU 1676	CA	THR B 115	3426	2409	1298	-984	478	-652	C
ATOM 1677	C	THR B 115	38.067	8.104	1.411	1.00	20.68		C
ANISOU 1677	C	THR B 115	3733	1723	2402	-807	1223	-950	C
ATOM 1678	O	THR B 115	37.270	8.978	1.763	1.00	19.18		O
ANISOU 1678	O	THR B 115	3490	1867	1931	-627	932	-427	O
ATOM 1679	CB	THR B 115	40.372	7.801	2.353	1.00	24.21		C
ANISOU 1679	CB	THR B 115	5118	2546	1533	-1377	-217	-487	C
ATOM 1680	OG1	THR B 115	39.835	8.396	3.532	1.00	29.27		O
ANISOU 1680	OG1	THR B 115	6271	3313	1536	-1889	-623	104	O
ATOM 1681	CG2	THR B 115	41.841	8.214	2.338	1.00	26.62		C
ANISOU 1681	CG2	THR B 115	4906	2248	2960	-1700	-1353	357	C
ATOM 1682	N	GLU B 116	37.645	6.872	1.186	1.00	26.00		N
ANISOU 1682	N	GLU B 116	4249	1698	3932	-711	1747	-639	N
ATOM 1683	CA	GLU B 116	36.239	6.508	1.390	1.00	26.28		C
ANISOU 1683	CA	GLU B 116	4462	1649	3875	-463	2195	154	C
ATOM 1684	C	GLU B 116	35.754	6.856	2.780	1.00	33.36		C
ANISOU 1684	C	GLU B 116	5960	2855	3861	-952	2743	-295	C
ATOM 1685	O	GLU B 116	34.636	7.288	3.099	1.00	35.04		O
ANISOU 1685	O	GLU B 116	6999	2859	3455	-2186	3331	-1500	O
ATOM 1686	CB	AGLU B 116	36.155	4.999	1.101	0.50	32.66		C
ANISOU 1686	CB	AGLU B 116	5588	1554	5269	-286	1907	-42	C
ATOM 1687	CB	BGLU B 116	36.090	5.012	1.085	0.50	32.89		C
ANISOU 1687	CB	BGLU B 116	5716	1574	5205	-203	1679	-35	C
ATOM 1688	CG	AGLU B 116	37.072	4.167	1.968	0.50	37.68		C
ANISOU 1688	CG	AGLU B 116	6705	1872	5739	-873	1842	-386	C
ATOM 1689	CG	BGLU B 116	34.806	4.414	1.618	0.50	35.57		C
ANISOU 1689	CG	BGLU B 116	5824	1791	5902	172	1754	363	C
ATOM 1690	CD	AGLU B 116	38.511	3.995	1.538	0.50	38.94		C
ANISOU 1690	CD	AGLU B 116	6632	2182	5981	-1335	1673	-1389	C
ATOM 1691	CD	BGLU B 116	34.456	3.092	0.955	0.50	47.58		C
ANISOU 1691	CD	BGLU B 116	7547	2357	8173	928	962	996	C
ATOM 1692	OE1	AGLU B 116	39.055	4.713	0.659	0.50	30.62		O
ANISOU 1692	OE1	AGLU B 116	6480	865	4287	-1021	1320	131	O
ATOM 1693	OE1	BGLU B 116	34.873	2.886	-0.209	0.50	54.15		O
ANISOU 1693	OE1	BGLU B 116	9667	2332	8575	2309	1468	2300	C
ATOM 1694	OE2	AGLU B 116	39.119	3.056	2.134	0.50	44.95		O
ANISOU 1694	OE2	AGLU B 116	8904	5166	3010	-3763	2501	-1636	C
ATOM 1695	OE2	BGLU B 116	33.768	2.278	1.608	0.50	51.60		O
ANISOU 1695	OE2	BGLU B 116	7048	3226	9331	1930	887	1174	O
ATOM 1696	N	ALA B 117	36.663	6.687	3.749	1.00	32.30		N
ANISOU 1696	N	ALA B 117	6464	2325	3484	-1021	2770	-381	N
ATOM 1697	CA	ALA B 117	36.230	6.859	5.129	1.00	33.86		C

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ANISOU 1697	CA	ALA B 117	6194	2907	3763	-1527	2902	23	C
ATOM 1698	C	ALA B 117	36.028	8.323	5.482	1.00	33.06		C
ANISOU 1698	C	ALA B 117	6215	2824	3523	-2053	2864	-523	C
ATOM 1699	O	ALA B 117	35.275	8.624	6.419	1.00	44.24		O
ANISOU 1699	O	ALA B 117	9895	2783	4131	-3005	4733	-1291	O
ATOM 1700	CB	ALA B 117	37.258	6.234	6.058	1.00	39.54		C
ANISOU 1700	CB	ALA B 117	8320	3117	3586	-2619	3282	-1285	C
ATOM 1701	N	ASN B 118	36.697	9.192	4.740	1.00	24.66		N
ANISOU 1701	N	ASN B 118	4193	2888	2290	-2108	1200	-648	N
ATOM 1702	CA	ASN B 118	36.620	10.614	5.031	1.00	21.27		C
ANISOU 1702	CA	ASN B 118	3646	2962	1475	-1753	377	-502	C
ATOM 1703	C	ASN B 118	35.639	11.244	4.066	1.00	16.58		C
ANISOU 1703	C	ASN B 118	3584	1989	725	-732	292	-537	C
ATOM 1704	O	ASN B 118	35.501	12.456	4.023	1.00	14.75		O
ANISOU 1704	O	ASN B 118	2135	1932	1539	-358	322	-540	O
ATOM 1705	CB	ASN B 118	37.951	11.331	4.913	1.00	22.30		C
ANISOU 1705	CB	ASN B 118	3246	3415	1813	-2000	425	-606	C
ATOM 1706	CG	ASN B 118	38.803	10.918	6.106	1.00	23.06		C
ANISOU 1706	CG	ASN B 118	3762	2911	2088	-1775	84	-773	C
ATOM 1707	OD1	ASN B 118	38.293	10.671	7.201	1.00	27.84		O
ANISOU 1707	OD1	ASN B 118	4341	4561	1674	-1637	15	-392	O
ATOM 1708	ND2	ASN B 118	40.098	10.835	5.809	1.00	25.85		N
ANISOU 1708	ND2	ASN B 118	3481	4489	1851	-1172	-493	30	N
ATOM 1709	N	ALA B 119	34.981	10.379	3.349	1.00	18.86		N
ANISOU 1709	N	ALA B 119	4008	1887	1270	-619	490	-187	N
ATOM 1710	CA	ALA B 119	34.029	10.931	2.404	1.00	16.03		C
ANISOU 1710	CA	ALA B 119	3281	1934	874	3	598	25	C
ATOM 1711	C	ALA B 119	32.963	11.766	3.085	1.00	13.82		C
ANISOU 1711	C	ALA B 119	2693	1572	987	390	504	-113	C
ATOM 1712	O	ALA B 119	32.426	12.660	2.443	1.00	14.04		O
ANISOU 1712	O	ALA B 119	1837	2150	1347	517	377	-414	O
ATOM 1713	CB	ALA B 119	33.378	9.816	1.589	1.00	27.59		C
ANISOU 1713	CB	ALA B 119	5338	3582	1562	537	565	1467	C
ATOM 1714	N	TRP B 120	32.606	11.505	4.324	1.00	13.98		N
ANISOU 1714	N	TRP B 120	2141	2225	946	242	382	-87	N
ATOM 1715	CA	TRP B 120	31.573	12.289	4.992	1.00	13.62		C
ANISOU 1715	CA	TRP B 120	1543	2430	1204	168	364	-525	C
ATOM 1716	C	TRP B 120	31.916	13.772	5.060	1.00	12.82		C
ANISOU 1716	C	TRP B 120	1435	2248	1189	-251	197	-448	C
ATOM 1717	O	TRP B 120	31.036	14.615	5.170	1.00	14.32		O
ANISOU 1717	O	TRP B 120	1381	2758	1304	-424	385	-352	O
ATOM 1718	CB	TRP B 120	31.307	11.742	6.401	1.00	13.60		C
ANISOU 1718	CB	TRP B 120	1732	2420	1013	101	309	-356	C
ATOM 1719	CG	TRP B 120	32.436	11.951	7.339	1.00	11.80		C
ANISOU 1719	CG	TRP B 120	1640	1649	1195	-54	311	-324	C
ATOM 1720	CD1	TRP B 120	33.532	11.157	7.547	1.00	13.15		C
ANISOU 1720	CD1	TRP B 120	1859	1820	1319	-285	321	-181	C
ATOM 1721	CD2	TRP B 120	32.600	13.065	8.222	1.00	10.97		C
ANISOU 1721	CD2	TRP B 120	1540	1655	973	-146	430	-380	C
ATOM 1722	NE1	TRP B 120	34.352	11.693	8.497	1.00	13.24		N
ANISOU 1722	NE1	TRP B 120	1841	2073	1115	-487	248	-193	N
ATOM 1723	CE2	TRP B 120	33.800	12.867	8.923	1.00	13.40		C
ANISOU 1723	CE2	TRP B 120	2014	2001	1077	-529	24	-163	C
ATOM 1724	CE3	TRP B 120	31.843	14.199	8.485	1.00	12.31		C
ANISOU 1724	CE3	TRP B 120	1412	1747	1520	-144	356	-225	C
ATOM 1725	CZ2	TRP B 120	34.250	13.786	9.874	1.00	13.33		C

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ANISOU 1725 CZ2 TRP B 120	2321	1673	1071	-183	-83	-505	C
ATOM 1726 CZ3 TRP B 120	32.288	15.105	9.425	1.00	13.02		C
ANISOU 1726 CZ3 TRP B 120	1823	1808	1314	-207	546	-125	C
ATOM 1727 CH2 TRP B 120	33.498	14.893	10.124	1.00	13.79		C
ANISOU 1727 CH2 TRP B 120	2196	1483	1562	105	70	-274	C
ATOM 1728 N LYS B 121	33.204	14.086	5.024	1.00	10.48		N
ANISOU 1728 N LYS B 121	1432	1382	1169	-447	230	-155	N
ATOM 1729 CA LYS B 121	33.637	15.470	5.120	1.00	11.55		C
ANISOU 1729 CA LYS B 121	2128	1330	930	-362	100	-388	C
ATOM 1730 C LYS B 121	34.279	15.901	3.816	1.00	10.74		C
ANISOU 1730 C LYS B 121	1353	1644	1083	-293	244	-144	C
ATOM 1731 O LYS B 121	35.083	16.808	3.784	1.00	12.64		O
ANISOU 1731 O LYS B 121	1829	1827	1146	14	89	-234	O
ATOM 1732 CB LYS B 121	34.584	15.710	6.283	1.00	12.31		C
ANISOU 1732 CB LYS B 121	1721	1921	1035	55	375	-59	C
ATOM 1733 CG LYS B 121	35.846	14.843	6.301	1.00	14.58		C
ANISOU 1733 CG LYS B 121	1602	2326	1611	68	-107	394	C
ATOM 1734 CD LYS B 121	36.772	15.224	7.443	1.00	17.50		C
ANISOU 1734 CD LYS B 121	2155	2987	1506	251	-353	95	C
ATOM 1735 CE LYS B 121	37.834	14.134	7.583	1.00	19.70		C
ANISOU 1735 CE LYS B 121	2462	3062	1961	100	-909	212	C
ATOM 1736 NZ LYS B 121	38.735	14.261	8.731	1.00	35.70		N
ANISOU 1736 NZ LYS B 121	2835	7989	2741	150	-1703	-735	N
ATOM 1737 N SER B 122	33.871	15.311	2.713	1.00	10.48		N
ANISOU 1737 N SER B 122	1353	1651	978	-72	233	-401	N
ATOM 1738 CA SER B 122	34.421	15.658	1.422	1.00	9.81		C
ANISOU 1738 CA SER B 122	1365	1404	957	-226	186	-349	C
ATOM 1739 C SER B 122	33.831	16.893	0.748	1.00	9.25		C
ANISOU 1739 C SER B 122	1005	1518	992	-99	30	-386	C
ATOM 1740 O SER B 122	34.457	17.437	-0.156	1.00	9.80		O
ANISOU 1740 O SER B 122	1286	1525	912	-236	162	-373	O
ATOM 1741 CB SER B 122	34.220	14.442	0.472	1.00	12.92		C
ANISOU 1741 CB SER B 122	2044	1577	1288	-62	289	-109	C
ATOM 1742 OG SER B 122	32.858	14.257	0.164	1.00	13.38		O
ANISOU 1742 OG SER B 122	2140	1733	1212	103	162	39	O
ATOM 1743 N THR B 123	32.620	17.304	1.110	1.00	8.67		N
ANISOU 1743 N THR B 123	1054	1510	732	-95	-17	-290	N
ATOM 1744 CA THR B 123	31.869	18.250	0.320	1.00	9.00		C
ANISOU 1744 CA THR B 123	1172	1399	848	-160	-359	116	C
ATOM 1745 C THR B 123	31.392	19.466	1.116	1.00	8.78		C
ANISOU 1745 C THR B 123	1450	1291	596	30	-22	-8	C
ATOM 1746 O THR B 123	30.575	19.322	2.011	1.00	10.44		O
ANISOU 1746 O THR B 123	1291	1478	1195	117	290	-30	O
ATOM 1747 CB THR B 123	30.599	17.603	-0.298	1.00	9.68		C
ANISOU 1747 CB THR B 123	1226	1260	1194	28	-381	-17	C
ATOM 1748 OG1 THR B 123	31.006	16.400	-1.002	1.00	11.74		O
ANISOU 1748 OG1 THR B 123	1630	1234	1596	17	-392	126	O
ATOM 1749 CG2 THR B 123	29.920	18.511	-1.284	1.00	9.51		C
ANISOU 1749 CG2 THR B 123	1101	1624	886	-151	-280	-26	C
ATOM 1750 N LEU B 124	31.891	20.614	0.681	1.00	9.33		N
ANISOU 1750 N LEU B 124	1314	1342	890	-204	313	-179	N
ATOM 1751 CA LEU B 124	31.440	21.903	1.189	1.00	9.63		C
ANISOU 1751 CA LEU B 124	1622	1239	796	-190	89	-195	C
ATOM 1752 C LEU B 124	30.262	22.396	0.333	1.00	8.99		C
ANISOU 1752 C LEU B 124	1446	1208	761	-123	183	-205	C
ATOM 1753 O LEU B 124	30.203	22.104	-0.877	1.00	9.29		O

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ANISOU 1753 O LEU B 124	1146	1489	894	-212	117	76	O
ATOM 1754 CB LEU B 124	32.582	22.924	1.138	1.00	9.18		C
ANISOU 1754 CB LEU B 124	1389	1270	828	-278	120	-239	C
ATOM 1755 CG LEU B 124	33.710	22.697	2.126	1.00	10.58		C
ANISOU 1755 CG LEU B 124	1546	1762	711	-219	90	-187	C
ATOM 1756 CD1 LEU B 124	34.894	23.555	1.645	1.00	13.39		C
ANISOU 1756 CD1 LEU B 124	1502	1999	1586	12	65	-60	C
ATOM 1757 CD2 LEU B 124	33.334	23.020	3.547	1.00	12.51		C
ANISOU 1757 CD2 LEU B 124	2099	1853	801	-320	6	114	C
ATOM 1758 N VAL B 125	29.362	23.160	0.938	1.00	8.90		N
ANISOU 1758 N VAL B 125	1359	1586	438	-136	130	-199	N
ATOM 1759 CA VAL B 125	28.244	23.750	0.236	1.00	8.45		C
ANISOU 1759 CA VAL B 125	1382	1329	500	-85	111	-238	C
ATOM 1760 C VAL B 125	28.209	25.221	0.576	1.00	8.40		C
ANISOU 1760 C VAL B 125	1249	1291	652	169	155	-211	C
ATOM 1761 O VAL B 125	28.487	25.640	1.707	1.00	9.53		O
ANISOU 1761 O VAL B 125	1174	1529	918	-149	-236	-17	O
ATOM 1762 CB VAL B 125	26.928	23.075	0.636	1.00	7.80		C
ANISOU 1762 CB VAL B 125	1411	1037	515	20	11	-94	C
ATOM 1763 CG1 VAL B 125	26.663	23.218	2.133	1.00	10.62		C
ANISOU 1763 CG1 VAL B 125	1574	1785	676	534	287	245	C
ATOM 1764 CG2 VAL B 125	25.748	23.618	-0.113	1.00	10.25		C
ANISOU 1764 CG2 VAL B 125	1413	1245	1237	15	26	-512	C
ATOM 1765 N GLY B 126	27.851	26.021	-0.397	1.00	9.04		N
ANISOU 1765 N GLY B 126	1484	1268	682	-17	196	-188	N
ATOM 1766 CA GLY B 126	27.751	27.444	-0.175	1.00	8.81		C
ANISOU 1766 CA GLY B 126	1127	1276	944	88	179	-177	C
ATOM 1767 C GLY B 126	26.903	28.089	-1.271	1.00	9.12		C
ANISOU 1767 C GLY B 126	1461	1157	846	29	40	-28	C
ATOM 1768 O GLY B 126	26.248	27.388	-2.054	1.00	10.07		O
ANISOU 1768 O GLY B 126	1830	1181	814	55	-9	97	O
ATOM 1769 N HIS B 127	26.936	29.416	-1.286	1.00	8.75		N
ANISOU 1769 N HIS B 127	1252	1163	911	120	24	-97	N
ATOM 1770 CA HIS B 127	26.145	30.174	-2.246	1.00	9.05		C
ANISOU 1770 CA HIS B 127	1174	1251	1012	41	137	-184	C
ATOM 1771 C HIS B 127	26.921	31.424	-2.675	1.00	10.36		C
ANISOU 1771 C HIS B 127	1703	1284	950	313	-66	-187	C
ATOM 1772 O HIS B 127	27.480	32.147	-1.869	1.00	11.03		O
ANISOU 1772 O HIS B 127	1736	1405	1051	198	-71	79	O
ATOM 1773 CB HIS B 127	24.795	30.527	-1.655	1.00	9.72		C
ANISOU 1773 CB HIS B 127	1502	1530	661	-301	255	-260	C
ATOM 1774 CG HIS B 127	24.880	31.149	-0.313	1.00	10.61		C
ANISOU 1774 CG HIS B 127	1393	1676	962	-206	-48	20	C
ATOM 1775 ND1 HIS B 127	24.821	32.476	-0.063	1.00	13.94		N
ANISOU 1775 ND1 HIS B 127	1834	1845	1619	-274	-93	301	N
ATOM 1776 CD2 HIS B 127	25.014	30.583	0.904	1.00	11.17		C
ANISOU 1776 CD2 HIS B 127	1420	2156	668	-55	219	158	C
ATOM 1777 CE1 HIS B 127	24.916	32.730	1.234	1.00	15.94		C
ANISOU 1777 CE1 HIS B 127	2050	2293	1715	260	170	667	C
ATOM 1778 NE2 HIS B 127	25.041	31.565	1.843	1.00	14.61		N
ANISOU 1778 NE2 HIS B 127	1829	2569	1153	126	-67	569	N
ATOM 1779 N ASP B 128	26.930	31.618	-3.988	1.00	9.21		N
ANISOU 1779 N ASP B 128	1550	1024	924	127	66	-79	N
ATOM 1780 CA ASP B 128	27.571	32.717	-4.652	1.00	8.50		C
ANISOU 1780 CA ASP B 128	1109	1195	925	138	94	-83	C
ATOM 1781 C ASP B 128	26.567	33.469	-5.506	1.00	9.23		C

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ANISOU 1781 C ASP B 128	1250	1221	1034	83	11	-221	C
ATOM 1782 O ASP B 128	25.773	32.890	-6.251	1.00	10.56		O
ANISOU 1782 O ASP B 128	1415	1548	1050	188	-44	-69	O
ATOM 1783 CB ASP B 128	28.736	32.238	-5.528	1.00	9.65		C
ANISOU 1783 CB ASP B 128	1447	1201	1017	-123	172	7	C
ATOM 1784 CG ASP B 128	29.969	31.739	-4.817	1.00	9.90		C
ANISOU 1784 CG ASP B 128	1218	1480	1063	-3	246	-129	C
ATOM 1785 OD1 ASP B 128	30.060	31.778	-3.574	1.00	10.53		O
ANISOU 1785 OD1 ASP B 128	1341	1598	1061	81	235	-133	O
ATOM 1786 OD2 ASP B 128	30.843	31.278	-5.595	1.00	9.70		O
ANISOU 1786 OD2 ASP B 128	1125	1466	1094	147	36	247	O
ATOM 1787 N THR B 129	26.647	34.787	-5.332	1.00	9.73		N
ANISOU 1787 N THR B 129	1343	1345	1008	-96	-137	21	N
ATOM 1788 CA THR B 129	25.892	35.635	-6.251	1.00	10.49		C
ANISOU 1788 CA THR B 129	1411	1195	1382	-185	-117	-87	C
ATOM 1789 C THR B 129	26.847	36.450	-7.099	1.00	10.14		C
ANISOU 1789 C THR B 129	1572	1052	1228	-79	-198	55	C
ATOM 1790 O THR B 129	27.772	37.046	-6.580	1.00	10.69		O
ANISOU 1790 O THR B 129	1797	1417	849	191	-131	-81	O
ATOM 1791 CB THR B 129	24.882	36.472	-5.450	1.00	13.46		C
ANISOU 1791 CB THR B 129	1930	1521	1662	-510	189	-205	C
ATOM 1792 OG1ATHR B 129	24.042	35.649	-4.663	0.50	22.07		O
ANISOU 1792 OG1ATHR B 129	3228	3147	2009	-937	1172	-1390	O
ATOM 1793 OG1BTHR B 129	24.042	37.147	-6.398	0.50	13.82		O
ANISOU 1793 OG1BTHR B 129	1184	2614	1453	-710	497	-261	O
ATOM 1794 CG2ATHR B 129	24.048	37.219	-6.480	0.50	20.65		C
ANISOU 1794 CG2ATHR B 129	2801	2908	2136	-1774	1046	-1367	C
ATOM 1795 CG2BTHR B 129	25.563	37.506	-4.594	0.50	17.11		C
ANISOU 1795 CG2BTHR B 129	1464	3633	1403	-229	779	1073	C
ATOM 1796 N PHE B 130	26.608	36.432	-8.394	1.00	10.35		N
ANISOU 1796 N PHE B 130	1417	1335	1182	186	-120	62	N
ATOM 1797 CA PHE B 130	27.465	37.085	-9.379	1.00	10.78		C
ANISOU 1797 CA PHE B 130	1248	1402	1445	-108	144	3	C
ATOM 1798 C PHE B 130	26.774	38.287	-10.003	1.00	10.35		C
ANISOU 1798 C PHE B 130	1275	1393	1266	-96	274	-14	C
ATOM 1799 O PHE B 130	25.588	38.210	-10.314	1.00	11.01		O
ANISOU 1799 O PHE B 130	1260	1403	1522	-100	282	-193	O
ATOM 1800 CB PHE B 130	27.836	36.093	-10.480	1.00	11.10		C
ANISOU 1800 CB PHE B 130	1722	1273	1224	-194	17	-126	C
ATOM 1801 CG PHE B 130	28.669	34.914	-10.026	1.00	8.98		C
ANISOU 1801 CG PHE B 130	1347	1105	958	55	-27	-102	C
ATOM 1802 CD1 PHE B 130	30.049	34.927	-10.141	1.00	8.83		C
ANISOU 1802 CD1 PHE B 130	1361	1042	951	212	-49	-116	C
ATOM 1803 CD2 PHE B 130	28.067	33.788	-9.495	1.00	9.53		C
ANISOU 1803 CD2 PHE B 130	1229	1183	1210	7	269	-51	C
ATOM 1804 CE1 PHE B 130	30.770	33.842	-9.698	1.00	8.87		C
ANISOU 1804 CE1 PHE B 130	1114	1152	1104	263	-154	-50	C
ATOM 1805 CE2 PHE B 130	28.786	32.697	-9.043	1.00	8.69		C
ANISOU 1805 CE2 PHE B 130	1249	1038	1013	182	65	-78	C
ATOM 1806 CZ PHE B 130	30.149	32.733	-9.163	1.00	8.83		C
ANISOU 1806 CZ PHE B 130	1262	839	1252	141	-10	56	C
ATOM 1807 N THR B 131	27.535	39.357	-10.201	1.00	11.25		N
ANISOU 1807 N THR B 131	1549	1561	1165	186	6	-191	N
ATOM 1808 CA THR B 131	27.096	40.470	-11.047	1.00	11.50		C
ANISOU 1808 CA THR B 131	1937	1399	1034	-264	368	23	C
ATOM 1809 C THR B 131	28.245	40.868	-11.962	1.00	10.04		C

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ANISOU 1809 C THR B 131	1555	1240	1019	-206	92	-113	C
ATOM 1810 O THR B 131	29.346	40.373	-11.786	1.00	11.71		O
ANISOU 1810 O THR B 131	1559	1309	1582	-162	-99	-253	O
ATOM 1811 CB THR B 131	26.651	41.716	-10.287	1.00	15.85		C
ANISOU 1811 CB THR B 131	2697	1714	1612	-270	765	416	C
ATOM 1812 OG1 THR B 131	27.725	42.289	-9.568	1.00	19.09		O
ANISOU 1812 OG1 THR B 131	3349	2055	1850	403	751	638	O
ATOM 1813 CG2 THR B 131	25.639	41.281	-9.214	1.00	21.72		C
ANISOU 1813 CG2 THR B 131	3280	1621	3354	-266	2064	511	C
ATOM 1814 N LYS B 132	27.954	41.753	-12.906	1.00	12.73		N
ANISOU 1814 N LYS B 132	1787	1335	1715	-127	-14	-553	N
ATOM 1815 CA LYS B 132	29.016	42.142	-13.839	1.00	13.12		C
ANISOU 1815 CA LYS B 132	2343	1201	1442	248	107	-303	C
ATOM 1816 C LYS B 132	29.775	43.358	-13.365	1.00	13.00		C
ANISOU 1816 C LYS B 132	2325	1064	1550	105	88	-200	C
ATOM 1817 O LYS B 132	30.652	43.944	-13.974	1.00	14.35		O
ANISOU 1817 O LYS B 132	2176	1638	1638	421	-47	-243	O
ATOM 1818 CB LYS B 132	28.377	42.396	-15.218	1.00	15.03		C
ANISOU 1818 CB LYS B 132	2790	1470	1450	75	-51	-167	C
ATOM 1819 CG LYS B 132	27.953	41.084	-15.915	1.00	18.23		C
ANISOU 1819 CG LYS B 132	3637	1299	1989	-388	-842	-87	C
ATOM 1820 CD LYS B 132	27.450	41.327	-17.311	1.00	17.88		C
ANISOU 1820 CD LYS B 132	3301	1643	1848	-82	-657	-60	C
ATOM 1821 CE LYS B 132	27.042	40.056	-18.026	1.00	20.93		C
ANISOU 1821 CE LYS B 132	4447	1801	1706	470	-397	-116	C
ATOM 1822 NZ LYS B 132	26.661	40.428	-19.419	1.00	28.81		N
ANISOU 1822 NZ LYS B 132	6607	2761	1578	1088	-720	-114	N
ATOM 1823 N VAL B 133	29.504	43.848	-12.187	1.00	14.52		N
ANISOU 1823 N VAL B 133	1914	1525	2078	161	307	270	N
ATOM 1824 CA VAL B 133	30.176	44.936	-11.494	1.00	16.76		C
ANISOU 1824 CA VAL B 133	2941	2019	1408	534	-211	6	C
ATOM 1825 C VAL B 133	31.516	44.495	-10.878	1.00	16.77		C
ANISOU 1825 C VAL B 133	2834	2028	1510	532	-140	52	C
ATOM 1826 O VAL B 133	31.583	43.654	-9.966	1.00	20.91		O
ANISOU 1826 O VAL B 133	3955	2117	1872	39	-422	-154	O
ATOM 1827 CB VAL B 133	29.326	45.515	-10.366	1.00	19.14		C
ANISOU 1827 CB VAL B 133	3377	1859	2035	-9	-266	494	C
ATOM 1828 CG1 VAL B 133	30.032	46.737	-9.800	1.00	19.75		C
ANISOU 1828 CG1 VAL B 133	3249	2383	1870	505	-125	399	C
ATOM 1829 CG2 VAL B 133	27.938	45.836	-10.876	1.00	21.79		C
ANISOU 1829 CG2 VAL B 133	2930	3085	2263	484	-44	401	C
ATOM 1830 N LYS B 134	32.582	45.086	-11.401	1.00	22.82		N
ANISOU 1830 N LYS B 134	2886	2393	3393	484	481	93	N
ATOM 1831 CA LYS B 134	33.964	44.935	-11.031	1.00	25.87		C
ANISOU 1831 CA LYS B 134	2980	2225	4624	1070	-111	798	C
ATOM 1832 C LYS B 134	34.155	45.520	-9.642	1.00	27.53		C
ANISOU 1832 C LYS B 134	3894	1696	4871	-341	-789	912	C
ATOM 1833 O LYS B 134	33.818	46.687	-9.444	1.00	38.72		O
ANISOU 1833 O LYS B 134	6927	1594	6192	-556	-785	1118	O
ATOM 1834 CB LYS B 134	34.841	45.643	-12.052	1.00	36.10		C
ANISOU 1834 CB LYS B 134	3886	3960	5869	3029	887	1681	C
ATOM 1835 CG LYS B 134	36.341	45.517	-11.964	1.00	43.76		C
ANISOU 1835 CG LYS B 134	3992	5474	7159	1699	1986	2815	C
ATOM 1836 CD LYS B 134	37.033	46.041	-13.217	1.00	49.45		C
ANISOU 1836 CD LYS B 134	5093	6279	7416	1817	3250	3658	C
ATOM 1837 CE LYS B 134	37.146	47.546	-13.296	1.00	57.10		C

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ANISOU 1837	CE	LYS B 134	6167	6493	9036	1988	2697	1604	C
ATOM 1838	NZ	LYS B 134	38.512	48.016	-13.684	1.00	67.65		N
ANISOU 1838	NZ	LYS B 134	7136	8106	10461	2201	3600	-1542	N
ATOM 1839	N	PRO B 135	34.670	44.749	-8.706	1.00	33.53		N
ANISOU 1839	N	PRO B 135	4181	2671	5888	-255	-2236	716	N
ATOM 1840	CA	PRO B 135	34.894	45.260	-7.346	1.00	36.39		C
ANISOU 1840	CA	PRO B 135	4496	3238	6091	111	-2832	789	C
ATOM 1841	C	PRO B 135	35.661	46.563	-7.225	1.00	41.76		C
ANISOU 1841	C	PRO B 135	5061	4196	6610	1108	-3505	467	C
ATOM 1842	O	PRO B 135	35.880	47.265	-8.224	1.00	56.84		O
ANISOU 1842	O	PRO B 135	7338	7292	6968	4319	-2205	292	O
ATOM 1843	CB	PRO B 135	35.752	44.133	-6.734	1.00	40.62		C
ANISOU 1843	CB	PRO B 135	5022	4078	6332	-825	-3104	1182	C
ATOM 1844	CG	PRO B 135	35.268	42.903	-7.436	1.00	40.95		C
ANISOU 1844	CG	PRO B 135	5780	3445	6335	-756	-3413	524	C
ATOM 1845	CD	PRO B 135	35.048	43.327	-8.875	1.00	35.62		C
ANISOU 1845	CD	PRO B 135	4544	2550	6441	-398	-3487	481	C
TER 1846		PRO B 135							
HETATM 1847	C11	BTN A5100	13.613	18.083	-13.988	1.00	10.37		C
ANISOU 1847	C11	BTN A5100	1075	1800	1066	104	-51	-89	C
HETATM 1848	O11	BTN A5100	12.725	17.370	-13.453	1.00	10.60		O
ANISOU 1848	O11	BTN A5100	1095	1676	1258	66	58	-59	O
HETATM 1849	O12	BTN A5100	13.685	19.328	-13.775	1.00	11.25		O
ANISOU 1849	O12	BTN A5100	1309	1733	1233	121	187	-171	O
HETATM 1850	C10	BTN A5100	14.590	17.459	-14.910	1.00	9.62		C
ANISOU 1850	C10	BTN A5100	1094	1677	882	-56	-95	-338	C
HETATM 1851	C9	BTN A5100	14.997	16.037	-14.525	1.00	9.96		C
ANISOU 1851	C9	BTN A5100	1273	1746	764	-62	-92	-426	C
HETATM 1852	C8	BTN A5100	15.784	16.039	-13.193	1.00	8.97		C
ANISOU 1852	C8	BTN A5100	1415	1312	681	-203	-55	-164	C
HETATM 1853	C7	BTN A5100	16.204	14.598	-12.800	1.00	7.85		C
ANISOU 1853	C7	BTN A5100	1313	1123	545	50	-49	-89	C
HETATM 1854	C2	BTN A5100	17.005	14.547	-11.505	1.00	9.25		C
ANISOU 1854	C2	BTN A5100	1250	1365	898	77	-183	-387	C
HETATM 1855	S1	BTN A5100	18.716	15.197	-11.636	1.00	9.67		S
ANISOU 1855	S1	BTN A5100	1273	1417	984	92	-86	-24	S
HETATM 1856	C6	BTN A5100	19.056	14.559	-9.982	1.00	8.53		C
ANISOU 1856	C6	BTN A5100	1080	1226	936	-102	-19	24	C
HETATM 1857	C5	BTN A5100	18.432	13.167	-9.931	1.00	8.74		C
ANISOU 1857	C5	BTN A5100	1226	1102	994	-186	-190	56	C
HETATM 1858	N1	BTN A5100	19.278	12.120	-10.472	1.00	9.35		N
ANISOU 1858	N1	BTN A5100	1323	1238	991	-151	-18	151	N
HETATM 1859	C3	BTN A5100	18.754	11.530	-11.563	1.00	9.35		C
ANISOU 1859	C3	BTN A5100	1228	1307	1019	60	18	154	C
HETATM 1860	O3	BTN A5100	19.318	10.626	-12.217	1.00	10.11		O
ANISOU 1860	O3	BTN A5100	1362	1323	1157	-31	39	220	O
HETATM 1861	N2	BTN A5100	17.566	12.107	-11.832	1.00	8.85		N
ANISOU 1861	N2	BTN A5100	936	1518	909	187	234	209	N
HETATM 1862	C4	BTN A5100	17.210	13.155	-10.878	1.00	8.54		C
ANISOU 1862	C4	BTN A5100	1358	1133	753	-71	-133	-99	C
HETATM 1863	C11	BTN B5200	39.922	24.575	-3.172	1.00	10.99		C
ANISOU 1863	C11	BTN B5200	1387	1780	1010	532	-293	-255	C
HETATM 1864	O11	BTN B5200	40.201	25.290	-2.176	1.00	11.63		O
ANISOU 1864	O11	BTN B5200	1439	1778	1200	-76	-448	1	O
HETATM 1865	O12	BTN B5200	39.726	23.335	-3.069	1.00	12.11		O
ANISOU 1865	O12	BTN B5200	1620	1668	1314	224	75	-207	O

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HETATM 1866	C10	BTN	B5200	39.842	25.197	-4.507	1.00	9.86		C
ANISOU 1866	C10	BTN	B5200	1011	1715	1022	-317	-159	-204	C
HETATM 1867	C9	BTN	B5200	39.292	26.631	-4.538	1.00	10.70		C
ANISOU 1867	C9	BTN	B5200	883	1883	1301	-448	-71	-9	C
HETATM 1868	C8	BTN	B5200	37.823	26.645	-4.074	1.00	9.52		C
ANISOU 1868	C8	BTN	B5200	818	1617	1180	-116	-142	237	C
HETATM 1869	C7	BTN	B5200	37.203	28.077	-4.121	1.00	9.06		C
ANISOU 1869	C7	BTN	B5200	761	1547	1134	-137	59	56	C
HETATM 1870	C2	BTN	B5200	35.720	28.105	-3.725	1.00	8.21		C
ANISOU 1870	C2	BTN	B5200	877	1147	1094	92	163	54	C
HETATM 1871	S1	BTN	B5200	34.641	27.428	-5.044	1.00	9.57		S
ANISOU 1871	S1	BTN	B5200	1018	1636	983	4	17	47	S
HETATM 1872	C6	BTN	B5200	33.194	28.030	-4.125	1.00	9.52		C
ANISOU 1872	C6	BTN	B5200	950	1033	1635	-66	84	47	C
HETATM 1873	C5	BTN	B5200	33.587	29.418	-3.625	1.00	7.93		C
ANISOU 1873	C5	BTN	B5200	862	1125	1026	72	-202	-103	C
HETATM 1874	N1	BTN	B5200	33.336	30.463	-4.572	1.00	8.20		N
ANISOU 1874	N1	BTN	B5200	1084	1132	899	-94	150	-160	N
HETATM 1875	C3	BTN	B5200	34.460	31.077	-5.007	1.00	7.61		C
ANISOU 1875	C3	BTN	B5200	942	882	1068	-10	74	139	C
HETATM 1876	O3	BTN	B5200	34.535	31.995	-5.840	1.00	9.32		O
ANISOU 1876	O3	BTN	B5200	1180	1241	1120	119	47	-162	O
HETATM 1877	N2	BTN	B5200	35.519	30.530	-4.348	1.00	8.27		N
ANISOU 1877	N2	BTN	B5200	1071	1207	863	6	84	-16	N
HETATM 1878	C4	BTN	B5200	35.116	29.455	-3.420	1.00	8.33		C
ANISOU 1878	C4	BTN	B5200	768	1263	1133	-55	201	-91	C
HETATM 1879	O	HOH	A6006	14.227	22.496	-8.915	1.00	14.30		O
ANISOU 1879	O	HOH	A6006	1815	2227	1391	-120	-415	-58	O
HETATM 1880	O	HOH	A6007	16.433	23.565	-19.189	1.00	11.66		O
ANISOU 1880	O	HOH	A6007	1773	1688	970	-93	-21	-100	O
HETATM 1881	O	HOH	A6008	22.578	19.964	-21.140	1.00	9.25		O
ANISOU 1881	O	HOH	A6008	1410	1474	632	177	82	98	O
HETATM 1882	O	HOH	A6009	20.770	27.153	-6.718	1.00	12.84		O
ANISOU 1882	O	HOH	A6009	2024	1651	1203	70	54	-129	O
HETATM 1883	O	HOH	A6011	18.659	12.075	-3.383	1.00	13.66		O
ANISOU 1883	O	HOH	A6011	1446	1496	2247	93	-314	96	O
HETATM 1884	O	HOH	A6013	13.548	17.987	-20.082	1.00	11.24		O
ANISOU 1884	O	HOH	A6013	1235	2158	877	244	-3	148	O
HETATM 1885	O	HOH	A6015	8.340	30.390	-10.640	1.00	13.43		O
ANISOU 1885	O	HOH	A6015	949	2434	1719	127	181	116	O
HETATM 1886	O	HOH	A6016	20.829	21.639	-23.068	1.00	13.64		O
ANISOU 1886	O	HOH	A6016	1757	1968	1457	239	-10	-215	O
HETATM 1887	O	HOH	A6019	40.962	14.684	-7.033	1.00	13.04		O
ANISOU 1887	O	HOH	A6019	1279	1984	1693	-52	-327	-273	O
HETATM 1888	O	HOH	A6020	20.743	18.102	-24.366	1.00	12.14		O
ANISOU 1888	O	HOH	A6020	1391	1729	1492	2	35	-116	O
HETATM 1889	O	HOH	A6025	11.015	28.447	-16.005	1.00	14.70		O
ANISOU 1889	O	HOH	A6025	1504	2601	1482	-191	105	-273	O
HETATM 1890	O	HOH	A6029	42.051	21.080	-24.088	1.00	17.91		O
ANISOU 1890	O	HOH	A6029	2649	2494	1662	-393	326	-109	O
HETATM 1891	O	HOH	A6031	41.970	18.559	-14.488	1.00	14.45		O
ANISOU 1891	O	HOH	A6031	1260	2288	1945	478	-18	-344	O
HETATM 1892	O	HOH	A6032	39.207	16.565	-24.200	1.00	18.28		O
ANISOU 1892	O	HOH	A6032	2558	2907	1483	367	587	-304	O
HETATM 1893	O	HOH	A6033	15.975	11.541	-19.556	1.00	13.78		O
ANISOU 1893	O	HOH	A6033	1830	1905	1501	-107	71	85	O

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HETATM 1894	O	HOH A6034	38.123	20.639	-23.169	1.00	15.92	O
ANISOU 1894	O	HOH A6034	2583	1873	1593	-21	497 -231	O
HETATM 1895	O	HOH A6035	41.343	21.205	-14.659	1.00	18.00	O
ANISOU 1895	O	HOH A6035	2549	2212	2077	306	-328 -162	O
HETATM 1896	O	HOH A6039	34.492	19.600	-20.697	1.00	20.65	O
ANISOU 1896	O	HOH A6039	2888	2458	2501	-315	402 -530	O
HETATM 1897	O	HOH A6041	36.638	21.175	-20.754	1.00	18.68	O
ANISOU 1897	O	HOH A6041	3376	2297	1426	-852	-1063 310	O
HETATM 1898	O	HOH A6042	40.826	21.774	-20.890	1.00	25.55	O
ANISOU 1898	O	HOH A6042	3668	3534	2506	-1237	1141 -410	O
HETATM 1899	O	HOH A6043	8.541	37.637	-8.928	1.00	25.10	O
ANISOU 1899	O	HOH A6043	3831	2551	3153	-858	195 33	O
HETATM 1900	O	HOH A6045	19.065	14.769	-31.140	1.00	33.44	O
ANISOU 1900	O	HOH A6045	4171	6581	1952	991	-1730 -2132	O
HETATM 1901	O	HOH A6047	18.441	11.240	-6.128	1.00	20.90	O
ANISOU 1901	O	HOH A6047	1978	2449	3513	-118	1 367	O
HETATM 1902	O	HOH A6050	24.645	2.672	-8.393	1.00	22.13	O
ANISOU 1902	O	HOH A6050	2982	1324	4103	-165	1084 559	O
HETATM 1903	O	HOH A6051	22.879	8.909	-21.679	1.00	19.46	O
ANISOU 1903	O	HOH A6051	2445	2821	2125	66	-204 202	O
HETATM 1904	O	HOH A6052	8.920	11.734	-11.948	1.00	27.98	O
ANISOU 1904	O	HOH A6052	3117	5274	2241	1901	377 -980	O
HETATM 1905	O	HOH A6053	11.466	26.083	-14.293	1.00	19.96	O
ANISOU 1905	O	HOH A6053	1768	3858	1958	-729	-476 -328	O
HETATM 1906	O	HOH A6054	12.368	25.079	-25.076	1.00	25.02	O
ANISOU 1906	O	HOH A6054	3884	3551	2071	1208	-1593 -1129	O
HETATM 1907	O	HOH A6055	5.727	34.667	-8.992	1.00	21.79	O
ANISOU 1907	O	HOH A6055	2204	2922	3153	-579	288 -43	O
HETATM 1908	O	HOH A6057	14.331	22.097	-27.163	1.00	23.14	O
ANISOU 1908	O	HOH A6057	3899	2201	2694	-153	-138 599	O
HETATM 1909	O	HOH A6059	42.621	13.182	-5.307	1.00	27.34	O
ANISOU 1909	O	HOH A6059	4827	2585	2976	-149	-1877 -861	O
HETATM 1910	O	HOH A6062	17.239	29.348	-3.403	1.00	21.75	O
ANISOU 1910	O	HOH A6062	1585	3254	3426	-529	-669 446	O
HETATM 1911	O	HOH A6065	17.661	30.569	-7.389	1.00	18.87	O
ANISOU 1911	O	HOH A6065	2125	3310	1737	22	-575 -309	O
HETATM 1912	O	HOH A6066	31.613	1.353	-19.165	1.00	18.81	O
ANISOU 1912	O	HOH A6066	2082	2159	2905	-171	286 328	O
HETATM 1913	O	HOH A6069	35.728	14.492	-22.902	1.00	26.68	O
ANISOU 1913	O	HOH A6069	3019	3792	3326	639	93 -1222	O
HETATM 1914	O	HOH A6070	18.202	5.425	-18.014	1.00	22.79	O
ANISOU 1914	O	HOH A6070	2714	3910	2035	475	-354 555	O
HETATM 1915	O	HOH A6074	41.737	13.068	-24.465	1.00	25.12	O
ANISOU 1915	O	HOH A6074	2954	4156	2434	30	1132 -190	O
HETATM 1916	O	HOH A6077	16.415	22.737	-29.740	1.00	21.95	O
ANISOU 1916	O	HOH A6077	3485	3617	1237	123	-245 723	O
HETATM 1917	O	HOH A6079	41.094	8.889	-11.782	1.00	24.72	O
ANISOU 1917	O	HOH A6079	2842	3061	3490	430	1256 923	O
HETATM 1918	O	HOH A6080	6.827	31.996	-3.165	1.00	25.52	O
ANISOU 1918	O	HOH A6080	2150	4780	2767	-1111	781 -401	O
HETATM 1919	O	HOH A6082	18.202	15.823	-28.216	1.00	18.75	O
ANISOU 1919	O	HOH A6082	2785	2681	1658	-622	-38 225	O
HETATM 1920	O	HOH A6083	31.943	6.381	-23.007	1.00	29.01	O
ANISOU 1920	O	HOH A6083	2878	4331	3815	-400	-17 718	O
HETATM 1921	O	HOH A6085	23.950	8.437	-2.755	1.00	24.11	O
ANISOU 1921	O	HOH A6085	3300	2432	3430	-442	449 521	O

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HETATM 1922	O	HOH A6086	18.094	13.518	-27.023	1.00	21.85		O
ANISOU 1922	O	HOH A6086	2892	3148	2263	18	-949	209	O
HETATM 1923	O	HOH A6087	17.413	8.805	-5.038	1.00	19.43		O
ANISOU 1923	O	HOH A6087	2218	2744	2421	261	403	-64	O
HETATM 1924	O	HOH A6094	8.945	20.593	-23.281	1.00	27.95		O
ANISOU 1924	O	HOH A6094	3037	3046	4538	-267	-992	429	O
HETATM 1925	O	HOH A6095	27.438	14.921	-25.671	1.00	24.35		O
ANISOU 1925	O	HOH A6095	4938	2498	1816	-7	84	-225	O
HETATM 1926	O	HOH A6096	8.096	17.873	-24.882	1.00	24.75		O
ANISOU 1926	O	HOH A6096	4041	3426	1937	-566	-513	393	O
HETATM 1927	O	HOH A6097	26.668	10.331	-2.680	1.00	37.65		O
ANISOU 1927	O	HOH A6097	4007	6242	4059	-2249	1228	-3157	O
HETATM 1928	O	HOH A6099	12.202	34.120	-3.285	1.00	19.60		O
ANISOU 1928	O	HOH A6099	2678	2297	2471	283	324	117	O
HETATM 1929	O	HOH A6100	8.170	28.007	-8.999	1.00	27.15		O
ANISOU 1929	O	HOH A6100	4105	2886	3324	18	-584	113	O
HETATM 1930	O	HOH A6110	12.390	23.319	-7.220	1.00	25.63		O
ANISOU 1930	O	HOH A6110	3830	2719	3191	713	146	539	O
HETATM 1931	O	HOH A6116	11.904	22.534	-26.205	1.00	26.74		O
ANISOU 1931	O	HOH A6116	4491	3518	2150	1021	-645	-403	O
HETATM 1932	O	HOH A6117	26.035	9.069	-25.467	1.00	38.70		O
ANISOU 1932	O	HOH A6117	5788	6585	2331	-559	1289	1025	O
HETATM 1933	O	HOH A6118	10.093	21.216	-14.802	1.00	38.69		O
ANISOU 1933	O	HOH A6118	4860	5217	4625	-891	618	2449	O
HETATM 1934	O	HOH A6119	11.760	10.995	-26.459	1.00	32.61		O
ANISOU 1934	O	HOH A6119	2258	3908	6225	-225	-575	1529	O
HETATM 1935	O	HOH A6120	10.016	35.457	-2.128	1.00	31.62		O
ANISOU 1935	O	HOH A6120	4549	4909	2558	1169	-508	-1011	O
HETATM 1936	O	HOH A6121	21.183	6.970	-22.351	1.00	21.82		O
ANISOU 1936	O	HOH A6121	3304	2125	2861	350	166	471	O
HETATM 1937	O	HOH A6122	6.334	34.890	-2.597	1.00	37.03		O
ANISOU 1937	O	HOH A6122	5074	5810	3186	-942	-172	-1581	O
HETATM 1938	O	HOH A6125	20.502	17.260	-27.135	1.00	25.25		O
ANISOU 1938	O	HOH A6125	2291	4904	2400	-95	-194	-207	O
HETATM 1939	O	HOH A6126	23.153	14.556	0.000	0.50	33.12		O
ANISOU 1939	O	HOH A6126	3494	4007	5084	0	-1427	0	O
HETATM 1940	O	HOH A6127	7.809	26.588	-21.699	1.00	31.68		O
ANISOU 1940	O	HOH A6127	3325	5741	2970	1083	-1221	-1202	O
HETATM 1941	O	HOH A6129	29.828	12.655	-2.687	1.00	27.57		O
ANISOU 1941	O	HOH A6129	4369	3350	2757	288	-51	442	O
HETATM 1942	O	HOH A6130	26.303	2.795	-23.240	1.00	32.24		O
ANISOU 1942	O	HOH A6130	3703	4724	3824	815	-194	730	O
HETATM 1943	O	HOH A6133	45.257	17.567	-18.068	1.00	30.72		O
ANISOU 1943	O	HOH A6133	3801	4539	3334	-91	524	651	O
HETATM 1944	O	HOH A6134	33.664	8.443	-2.147	1.00	32.07		O
ANISOU 1944	O	HOH A6134	3486	3401	5299	709	525	2010	O
HETATM 1945	O	HOH A6136	36.936	2.132	-13.492	1.00	35.86		O
ANISOU 1945	O	HOH A6136	5129	3360	5135	436	1609	178	O
HETATM 1946	O	HOH A6139	10.341	10.649	-15.761	1.00	27.40		O
ANISOU 1946	O	HOH A6139	4207	3657	2546	689	-688	222	O
HETATM 1947	O	HOH A6140	40.971	3.176	-11.909	1.00	41.77		O
ANISOU 1947	O	HOH A6140	3753	7193	4925	-1800	541	1367	O
HETATM 1948	O	HOH A6142	20.153	21.177	-31.345	1.00	51.81		O
ANISOU 1948	O	HOH A6142	5862	7570	6253	1188	-2084	-1567	O
HETATM 1949	O	HOH A6145	6.779	15.996	-23.491	1.00	38.27		O
ANISOU 1949	O	HOH A6145	3334	6147	5060	1129	-1065	-1078	O

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HETATM 1950	O	HOH A6148	36.559	16.314	-24.600	1.00	27.62	O
ANISOU 1950	O	HOH A6148	3227	4812	2456	1186	-481 -127	O
HETATM 1951	O	HOH A6150	31.294	-1.165	-11.249	1.00	30.87	O
ANISOU 1951	O	HOH A6150	2304	5206	4220	543	-682 -2568	O
HETATM 1952	O	HOH A6151	30.316	3.950	-22.633	1.00	29.33	O
ANISOU 1952	O	HOH A6151	3543	4956	2644	749	419 194	O
HETATM 1953	O	HOH A6152	42.331	11.171	-13.109	1.00	25.43	O
ANISOU 1953	O	HOH A6152	3067	3564	3031	-952	684 -454	O
HETATM 1954	O	HOH A6154	10.952	18.079	-11.491	1.00	32.26	O
ANISOU 1954	O	HOH A6154	4362	3786	4107	-1258	1541 -508	O
HETATM 1955	O	HOH A6155	14.412	34.626	-10.934	1.00	31.86	O
ANISOU 1955	O	HOH A6155	3732	3728	4643	1306	1509 1575	O
HETATM 1956	O	HOH A6156	10.622	21.281	-6.714	1.00	42.82	O
ANISOU 1956	O	HOH A6156	5508	5153	5609	-651	-1217 -208	O
HETATM 1957	O	HOH A6157	43.954	20.195	-16.756	1.00	34.57	O
ANISOU 1957	O	HOH A6157	4669	5855	2613	-1412	340 484	O
HETATM 1958	O	HOH A6160	11.094	20.679	-10.828	1.00	68.99	O
ANISOU 1958	O	HOH A6160	8839	8594	8780	-508	-1078 374	O
HETATM 1959	O	HOH A6161	41.465	8.365	-7.384	1.00	33.89	O
ANISOU 1959	O	HOH A6161	5162	5484	2230	-3045	161 -1050	O
HETATM 1960	O	HOH A6163	36.006	20.198	-24.413	1.00	28.56	O
ANISOU 1960	O	HOH A6163	3235	5679	1937	-66 -63	-270	O
HETATM 1961	O	HOH A6165	28.446	12.359	-0.554	1.00	38.41	O
ANISOU 1961	O	HOH A6165	4324	4642	5629	-278	73 -2367	O
HETATM 1962	O	HOH A6167	12.248	10.296	-17.175	1.00	35.19	O
ANISOU 1962	O	HOH A6167	3087	5366	4917	334	-1266 -1359	O
HETATM 1963	O	HOH A6168	10.332	37.486	-11.468	1.00	33.99	O
ANISOU 1963	O	HOH A6168	5364	3184	4367	-710	-709 -1960	O
HETATM 1964	O	HOH A6169	32.633	4.031	-3.227	1.00	34.59	O
ANISOU 1964	O	HOH A6169	4680	2374	6088	-387	-1514 -1079	O
HETATM 1965	O	HOH A6171	13.452	5.391	-10.278	1.00	34.13	O
ANISOU 1965	O	HOH A6171	4906	3409	4654	1093	1392 588	O
HETATM 1966	O	HOH A6175	8.575	10.342	-24.992	1.00	41.95	O
ANISOU 1966	O	HOH A6175	6347	6039	3552	2222	-1196 -305	O
HETATM 1967	O	HOH A6177	21.817	14.182	-26.877	1.00	46.59	O
ANISOU 1967	O	HOH A6177	6287	6085	5331	733	-801 -3018	O
HETATM 1968	O	HOH A6178	13.995	9.602	-19.548	1.00	40.49	O
ANISOU 1968	O	HOH A6178	5622	5353	4409	1514	-343 -1898	O
HETATM 1969	O	HOH A6181	8.661	22.225	-18.775	1.00	36.65	O
ANISOU 1969	O	HOH A6181	4625	5800	3501	-1638	-987 -134	O
HETATM 1970	O	HOH A6188	43.663	11.825	-17.492	1.00	31.37	O
ANISOU 1970	O	HOH A6188	2801	4745	4374	-1071	302 -651	O
HETATM 1971	O	HOH A6189	45.325	13.883	-1.314	1.00	37.74	O
ANISOU 1971	O	HOH A6189	4157	4152	6032	-911	-600 1061	O
HETATM 1972	O	HOH A6190	7.813	19.651	-20.315	1.00	53.80	O
ANISOU 1972	O	HOH A6190	7177	6675	6591	-533	766 1486	O
HETATM 1973	O	HOH A6195	49.311	14.907	-8.636	1.00	39.48	O
ANISOU 1973	O	HOH A6195	3985	5570	5444	-130	-969 -168	O
HETATM 1974	O	HOH A6196	29.031	13.138	-26.460	1.00	37.81	O
ANISOU 1974	O	HOH A6196	5318	5828	3221	-1339	1632 -182	O
HETATM 1975	O	HOH A6197	15.376	2.451	-8.876	1.00	35.68	O
ANISOU 1975	O	HOH A6197	3566	5380	4610	952	879 -1001	O
HETATM 1976	O	HOH A6206	21.628	4.323	-23.582	1.00	43.38	O
ANISOU 1976	O	HOH A6206	5830	4431	6221	1513	-1448 564	O
HETATM 1977	O	HOH A6208	4.995	28.277	-2.310	1.00	33.63	O
ANISOU 1977	O	HOH A6208	2859	7245	2672	-193	-1127 808	O

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HETATM 1978	O	HOH A6210	47.871	11.224	-10.948	1.00	40.69	O
ANISOU 1978	O	HOH A6210	4687	5975	4798	-2046	-1520	1236 O
HETATM 1979	O	HOH A6211	44.361	10.322	-14.528	1.00	40.16	O
ANISOU 1979	O	HOH A6211	5420	5179	4660	689	1836	753 O
HETATM 1980	O	HOH A6212	45.763	13.617	-18.456	1.00	37.11	O
ANISOU 1980	O	HOH A6212	4758	3562	5782	-184	-237	297 O
HETATM 1981	O	HOH A6214	38.994	6.581	-2.238	1.00	40.70	O
ANISOU 1981	O	HOH A6214	6126	4692	4645	681	322	-582 O
HETATM 1982	O	HOH A6215	49.438	11.085	-4.597	1.00	44.63	O
ANISOU 1982	O	HOH A6215	4059	6091	6810	-238	298	-565 O
HETATM 1983	O	HOH A6216	44.096	7.899	-8.433	1.00	37.74	O
ANISOU 1983	O	HOH A6216	4951	4806	4584	-973	-1286	-243 O
HETATM 1984	O	HOH A6219	34.671	2.222	-21.494	1.00	37.32	O
ANISOU 1984	O	HOH A6219	4438	4394	5349	-1431	173	687 O
HETATM 1985	O	HOH A6220	36.382	-0.824	-13.138	1.00	45.94	O
ANISOU 1985	O	HOH A6220	5408	7252	4793	-419	780	369 O
HETATM 1986	O	HOH A6221	43.269	22.119	-19.757	1.00	51.90	O
ANISOU 1986	O	HOH A6221	7074	6620	6025	519	1184	2368 O
HETATM 1987	O	HOH A6223	26.099	6.738	-26.946	1.00	48.19	O
ANISOU 1987	O	HOH A6223	6114	5608	6590	-986	1673	-1462 O
HETATM 1988	O	HOH A6224	30.087	4.536	-25.183	1.00	56.66	O
ANISOU 1988	O	HOH A6224	7863	7231	6433	-628	-117	48 O
HETATM 1989	O	HOH A6225	19.068	9.182	-3.192	1.00	39.04	O
ANISOU 1989	O	HOH A6225	6965	4052	3816	2814	-2055	-928 O
HETATM 1990	O	HOH A6227	5.336	25.407	-6.255	1.00	46.19	O
ANISOU 1990	O	HOH A6227	3641	7211	6698	1514	-626	162 O
HETATM 1991	O	HOH A6228	29.770	9.035	-0.624	1.00	49.86	O
ANISOU 1991	O	HOH A6228	7146	6513	5287	-101	862	19 O
HETATM 1992	O	HOH A6229	44.286	7.106	-4.938	1.00	48.61	O
ANISOU 1992	O	HOH A6229	4105	9011	5353	-741	-2028	592 O
HETATM 1993	O	HOH A6233	6.307	37.341	-9.379	1.00	48.93	O
ANISOU 1993	O	HOH A6233	7350	5721	5519	-76	-1461	-523 O
HETATM 1994	O	HOH A6234	22.169	7.622	-3.958	1.00	42.21	O
ANISOU 1994	O	HOH A6234	5348	6319	4371	436	-647	1062 O
HETATM 1995	O	HOH A6236	5.565	27.652	-7.840	1.00	26.44	O
ANISOU 1995	O	HOH A6236	3508	2952	3584	281	-1581	-67 O
HETATM 1996	O	HOH A6239	32.801	19.165	-22.823	1.00	40.04	O
ANISOU 1996	O	HOH A6239	5810	4622	4781	-1259	646	1880 O
HETATM 1997	O	HOH B6001	29.749	21.356	-15.776	1.00	9.35	O
ANISOU 1997	O	HOH B6001	1382	1238	932	115	44	72 O
HETATM 1998	O	HOH B6002	26.248	25.841	-27.673	1.00	9.82	O
ANISOU 1998	O	HOH B6002	1570	1133	1030	17	-654	-133 O
HETATM 1999	O	HOH B6003	20.118	24.342	-23.329	1.00	12.19	O
ANISOU 1999	O	HOH B6003	1387	1727	1516	314	-296	-127 O
HETATM 2000	O	HOH B6004	38.675	22.691	-14.555	1.00	9.94	O
ANISOU 2000	O	HOH B6004	1507	1168	1102	-2	248	17 O
HETATM 2001	O	HOH B6005	30.670	16.139	3.056	1.00	15.79	O
ANISOU 2001	O	HOH B6005	1459	2762	1777	-613	448	-911 O
HETATM 2002	O	HOH B6010	30.060	28.132	-24.688	1.00	13.87	O
ANISOU 2002	O	HOH B6010	1693	1870	1705	132	-241	126 O
HETATM 2003	O	HOH B6012	15.486	27.985	-17.283	1.00	11.25	O
ANISOU 2003	O	HOH B6012	1279	1857	1137	168	-194	-72 O
HETATM 2004	O	HOH B6014	38.498	33.871	-14.825	1.00	12.60	O
ANISOU 2004	O	HOH B6014	1735	1885	1166	346	-211	-165 O
HETATM 2005	O	HOH B6017	28.743	30.453	0.830	1.00	14.24	O
ANISOU 2005	O	HOH B6017	1756	1759	1894	-310	-716	299 O

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HETATM 2006	O	HOH B6018	41.674	19.118	-8.864	1.00	12.32	O
ANISOU 2006	O	HOH B6018	1384	1932	1366	-228	218 -65	O
HETATM 2007	O	HOH B6021	42.194	31.153	-8.669	1.00	11.95	O
ANISOU 2007	O	HOH B6021	1400	1845	1296	-139	118 -183	O
HETATM 2008	O	HOH B6022	44.212	24.754	-7.370	1.00	11.70	O
ANISOU 2008	O	HOH B6022	1384	1777	1286	69	75 21	O
HETATM 2009	O	HOH B6023	13.024	29.574	-17.559	1.00	13.73	O
ANISOU 2009	O	HOH B6023	1940	1963	1313	15	-215 -143	O
HETATM 2010	O	HOH B6024	25.357	42.828	-13.276	1.00	18.22	O
ANISOU 2010	O	HOH B6024	1897	1859	3168	-178	-361 -714	O
HETATM 2011	O	HOH B6026	39.232	37.465	-8.968	1.00	15.97	O
ANISOU 2011	O	HOH B6026	2669	2207	1191	595	-7 144	O
HETATM 2012	O	HOH B6027	40.325	35.975	-14.306	1.00	13.73	O
ANISOU 2012	O	HOH B6027	1834	2018	1365	349	12 88	O
HETATM 2013	O	HOH B6028	42.301	24.644	-15.474	1.00	12.46	O
ANISOU 2013	O	HOH B6028	1377	1798	1560	-265	-53 62	O
HETATM 2014	O	HOH B6030	15.367	34.175	-17.936	1.00	17.61	O
ANISOU 2014	O	HOH B6030	2692	1909	2091	-424	-5 -234	O
HETATM 2015	O	HOH B6036	30.460	26.721	3.227	1.00	14.75	O
ANISOU 2015	O	HOH B6036	1915	2472	1218	621	-430 -444	O
HETATM 2016	O	HOH B6037	35.881	20.029	-0.048	1.00	15.91	O
ANISOU 2016	O	HOH B6037	1983	1960	2103	-35	59 208	O
HETATM 2017	O	HOH B6038	23.095	32.804	-4.507	1.00	17.50	O
ANISOU 2017	O	HOH B6038	2787	2167	1695	-658	95 235	O
HETATM 2018	O	HOH B6040	40.953	11.864	2.884	1.00	14.32	O
ANISOU 2018	O	HOH B6040	1897	2108	1436	-62	-265 -165	O
HETATM 2019	O	HOH B6044	31.883	42.804	-16.198	1.00	21.31	O
ANISOU 2019	O	HOH B6044	2133	1752	4212	-218	294 -567	O
HETATM 2020	O	HOH B6046	30.913	41.598	-19.236	1.00	20.88	O
ANISOU 2020	O	HOH B6046	3240	1966	2728	72	-209 -57	O
HETATM 2021	O	HOH B6048	20.352	29.697	-6.782	1.00	22.55	O
ANISOU 2021	O	HOH B6048	3160	2015	3391	-284	421 324	O
HETATM 2022	O	HOH B6049	42.145	31.439	1.409	1.00	32.70	O
ANISOU 2022	O	HOH B6049	5294	5725	1405	-1070	710 1242	O
HETATM 2023	O	HOH B6056	34.030	39.041	-20.862	1.00	26.05	O
ANISOU 2023	O	HOH B6056	3432	3681	2784	70	508 962	O
HETATM 2024	O	HOH B6058	8.494	29.486	-13.140	1.00	27.40	O
ANISOU 2024	O	HOH B6058	2664	4715	3031	1030	-610 497	O
HETATM 2025	O	HOH B6060	30.744	33.706	0.675	1.00	19.15	O
ANISOU 2025	O	HOH B6060	2785	3247	1243	-57	-314 136	O
HETATM 2026	O	HOH B6061	34.570	43.545	-16.110	1.00	23.85	O
ANISOU 2026	O	HOH B6061	2818	3727	2516	247	-307 -902	O
HETATM 2027	O	HOH B6063	29.701	15.422	-3.125	1.00	16.94	O
ANISOU 2027	O	HOH B6063	1647	3008	1783	277	-106 13	O
HETATM 2028	O	HOH B6064	36.801	10.578	9.276	1.00	22.45	O
ANISOU 2028	O	HOH B6064	2791	3515	2223	-1344	-543 -225	O
HETATM 2029	O	HOH B6067	32.657	8.768	5.112	1.00	28.62	O
ANISOU 2029	O	HOH B6067	5484	2775	2618	-78	1761 -539	O
HETATM 2030	O	HOH B6068	45.884	29.511	-15.407	1.00	19.71	O
ANISOU 2030	O	HOH B6068	1478	3373	2637	201	339 251	O
HETATM 2031	O	HOH B6071	19.691	30.353	-27.648	1.00	21.05	O
ANISOU 2031	O	HOH B6071	2218	3131	2647	-106	-412 -567	O
HETATM 2032	O	HOH B6072	24.788	35.566	-23.639	1.00	27.09	O
ANISOU 2032	O	HOH B6072	2695	5362	2236	-984	-119 -668	O
HETATM 2033	O	HOH B6073	25.940	22.840	-27.057	1.00	20.05	O
ANISOU 2033	O	HOH B6073	3226	2556	1837	-211	-78 -270	O

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HETATM 2034	O	HOH B6075	39.114	40.159	-16.520	1.00	23.41	O
ANISOU 2034	O	HOH B6075	3152	2652	3090	-256	68 -285	O
HETATM 2035	O	HOH B6076	24.361	34.165	-2.311	1.00	16.80	O
ANISOU 2035	O	HOH B6076	2569	1880	1936	-135	126 73	O
HETATM 2036	O	HOH B6078	23.153	27.820	0.000	0.50	32.01	O
ANISOU 2036	O	HOH B6078	4331	5211	2620	0 -1547	0	O
HETATM 2037	O	HOH B6081	15.041	45.231	-14.026	1.00	29.52	O
ANISOU 2037	O	HOH B6081	3868	2067	5280	-79 -35	47	O
HETATM 2038	O	HOH B6084	39.491	40.034	-12.093	1.00	21.88	O
ANISOU 2038	O	HOH B6084	3084	2546	2683	1076 -374	-501	O
HETATM 2039	O	HOH B6088	46.983	27.054	-16.230	1.00	21.46	O
ANISOU 2039	O	HOH B6088	3221	2699	2233	67 1064	-1086	O
HETATM 2040	O	HOH B6089	43.539	31.865	-2.024	1.00	24.93	O
ANISOU 2040	O	HOH B6089	2937	3066	3469	625 1146	565	O
HETATM 2041	O	HOH B6090	49.745	32.769	-10.592	1.00	35.49	O
ANISOU 2041	O	HOH B6090	2747	4305	6434	168 -1122	-119	O
HETATM 2042	O	HOH B6091	25.898	33.666	4.194	1.00	26.10	O
ANISOU 2042	O	HOH B6091	3242	3821	2854	522 91	26	O
HETATM 2043	O	HOH B6092	29.375	41.206	-7.972	1.00	29.95	O
ANISOU 2043	O	HOH B6092	3663	2699	5017	-667 1174	-106	O
HETATM 2044	O	HOH B6093	49.691	21.909	-6.189	1.00	35.29	O
ANISOU 2044	O	HOH B6093	4842	4427	4142	1714 -2136	-2207	O
HETATM 2045	O	HOH B6098	44.710	34.521	-8.694	1.00	26.99	O
ANISOU 2045	O	HOH B6098	3564	3016	3676	-1066 -1227	772	O
HETATM 2046	O	HOH B6101	29.509	13.571	1.994	1.00	30.01	O
ANISOU 2046	O	HOH B6101	2357	4664	4381	773 -131	-158	O
HETATM 2047	O	HOH B6102	32.239	12.382	-1.894	1.00	34.76	O
ANISOU 2047	O	HOH B6102	3871	5758	3580	-1753 688	1989	O
HETATM 2048	O	HOH B6103	36.466	8.365	-1.915	1.00	33.61	O
ANISOU 2048	O	HOH B6103	4257	4389	4124	1321 -327	901	O
HETATM 2049	O	HOH B6104	18.764	33.800	-20.733	1.00	24.29	O
ANISOU 2049	O	HOH B6104	3053	2893	3283	75 -1325	-18	O
HETATM 2050	O	HOH B6105	18.716	40.916	-12.312	1.00	26.58	O
ANISOU 2050	O	HOH B6105	3815	2182	4103	43 901	-236	O
HETATM 2051	O	HOH B6106	43.214	14.073	-2.874	1.00	25.93	O
ANISOU 2051	O	HOH B6106	3905	3587	2362	-811 632	-248	O
HETATM 2052	O	HOH B6107	27.196	29.858	-30.289	1.00	33.11	O
ANISOU 2052	O	HOH B6107	3751	6596	2234	-128 775	-540	O
HETATM 2053	O	HOH B6108	12.962	31.741	-24.659	1.00	33.57	O
ANISOU 2053	O	HOH B6108	4839	5330	2585	-735 -33	-1379	O
HETATM 2054	O	HOH B6109	13.564	36.313	-13.265	1.00	32.08	O
ANISOU 2054	O	HOH B6109	3317	2883	5988	302 -1050	202	O
HETATM 2055	O	HOH B6111	34.493	6.934	8.467	1.00	27.41	O
ANISOU 2055	O	HOH B6111	3944	4446	2024	-700 1060	446	O
HETATM 2056	O	HOH B6112	37.413	40.204	-18.435	1.00	27.52	O
ANISOU 2056	O	HOH B6112	3394	4288	2772	761 1027	-806	O
HETATM 2057	O	HOH B6113	24.054	21.250	-27.630	1.00	39.70	O
ANISOU 2057	O	HOH B6113	8031	4060	2993	-186 -2379	282	O
HETATM 2058	O	HOH B6114	41.673	16.459	-2.001	1.00	34.61	O
ANISOU 2058	O	HOH B6114	2841	7491	2817	-1180 618	-1711	O
HETATM 2059	O	HOH B6115	22.009	34.779	-22.169	1.00	32.52	O
ANISOU 2059	O	HOH B6115	5689	3802	2863	-609 -1348	225	O
HETATM 2060	O	HOH B6123	18.824	39.052	-20.803	1.00	35.02	O
ANISOU 2060	O	HOH B6123	4013	6499	2794	979 -1165	-1909	O
HETATM 2061	O	HOH B6124	15.489	36.748	-16.407	1.00	33.83	O
ANISOU 2061	O	HOH B6124	4707	2602	5547	-223 -2287	631	O

Sheet1

HETATM 2062	O	HOH B6128	23.405	40.211	-18.394	1.00	40.51	O
ANISOU 2062	O	HOH B6128	6079	5302	4011	121	277 777	O
HETATM 2063	O	HOH B6131	33.236	36.346	-22.195	1.00	25.74	O
ANISOU 2063	O	HOH B6131	3776	3184	2819	1354	-1014 -1437	O
HETATM 2064	O	HOH B6132	28.039	39.807	-5.842	1.00	26.19	O
ANISOU 2064	O	HOH B6132	4606	2060	3283	173	-18 708	O
HETATM 2065	O	HOH B6135	10.614	28.442	-24.055	1.00	46.08	O
ANISOU 2065	O	HOH B6135	4954	6948	5607	-125	332 -1008	O
HETATM 2066	O	HOH B6137	31.000	43.284	-7.454	1.00	31.03	O
ANISOU 2066	O	HOH B6137	4465	4080	3246	502	183 230	O
HETATM 2067	O	HOH B6138	26.260	39.217	-22.960	1.00	34.22	O
ANISOU 2067	O	HOH B6138	4280	6274	2448	-2719	-785 -256	O
HETATM 2068	O	HOH B6141	41.484	37.166	-7.397	1.00	37.06	O
ANISOU 2068	O	HOH B6141	5344	3768	4968	1116	1744 33	O
HETATM 2069	O	HOH B6143	36.724	23.855	-22.242	1.00	28.55	O
ANISOU 2069	O	HOH B6143	4422	2900	3524	-1154	600 410	O
HETATM 2070	O	HOH B6144	17.895	44.052	-12.899	1.00	43.70	O
ANISOU 2070	O	HOH B6144	5567	3988	7048	1540	674 487	O
HETATM 2071	O	HOH B6146	28.343	32.974	5.270	1.00	23.86	O
ANISOU 2071	O	HOH B6146	2637	3625	2803	466	339 100	O
HETATM 2072	O	HOH B6147	24.080	44.253	-15.397	1.00	28.63	O
ANISOU 2072	O	HOH B6147	3838	3162	3878	182	-162 -1207	O
HETATM 2073	O	HOH B6149	18.947	31.355	-22.218	1.00	32.80	O
ANISOU 2073	O	HOH B6149	3662	5469	3332	-1670	1177 -295	O
HETATM 2074	O	HOH B6153	31.773	35.181	2.596	1.00	30.30	O
ANISOU 2074	O	HOH B6153	3465	5530	2518	-177	-707 1393	O
HETATM 2075	O	HOH B6158	18.217	38.280	-7.942	1.00	32.93	O
ANISOU 2075	O	HOH B6158	4345	2044	6124	-744	1037 -66	O
HETATM 2076	O	HOH B6159	36.890	7.959	9.631	1.00	26.74	O
ANISOU 2076	O	HOH B6159	3866	3014	3279	-131	1523 187	O
HETATM 2077	O	HOH B6162	28.861	41.553	-20.758	1.00	32.36	O
ANISOU 2077	O	HOH B6162	5266	3992	3037	-1386	1381 -398	O
HETATM 2078	O	HOH B6164	17.369	33.867	-8.414	1.00	29.77	O
ANISOU 2078	O	HOH B6164	1894	4847	4572	1275	670 1870	O
HETATM 2079	O	HOH B6166	43.209	32.817	-4.715	1.00	35.24	O
ANISOU 2079	O	HOH B6166	3509	5981	3901	-854	-181 1914	O
HETATM 2080	O	HOH B6170	48.832	18.100	-10.649	1.00	31.23	O
ANISOU 2080	O	HOH B6170	2035	4501	5330	-412	239 1767	O
HETATM 2081	O	HOH B6172	28.404	33.074	1.440	1.00	43.77	O
ANISOU 2081	O	HOH B6172	4559	4781	7290	2032	2259 3071	O
HETATM 2082	O	HOH B6173	35.955	19.022	2.319	1.00	27.01	O
ANISOU 2082	O	HOH B6173	4096	3802	2364	-407	300 -868	O
HETATM 2083	O	HOH B6174	24.809	33.006	-27.051	1.00	55.19	O
ANISOU 2083	O	HOH B6174	7073	5865	8033	345	-1075 -1920	O
HETATM 2084	O	HOH B6176	11.287	34.573	-18.312	1.00	30.46	O
ANISOU 2084	O	HOH B6176	4875	2982	3715	-740	82 -908	O
HETATM 2085	O	HOH B6179	37.851	37.439	-0.843	1.00	40.39	O
ANISOU 2085	O	HOH B6179	7233	4832	3282	458	-343 751	O
HETATM 2086	O	HOH B6180	18.103	40.125	-9.599	1.00	38.26	O
ANISOU 2086	O	HOH B6180	5948	5374	3215	-515	-99 118	O
HETATM 2087	O	HOH B6182	50.374	33.515	-13.116	1.00	44.98	O
ANISOU 2087	O	HOH B6182	3612	5317	8162	116	-2228 227	O
HETATM 2088	O	HOH B6183	42.095	38.924	-12.233	1.00	42.23	O
ANISOU 2088	O	HOH B6183	5275	5456	5314	1093	269 -367	O
HETATM 2089	O	HOH B6184	46.059	35.108	-13.617	1.00	40.80	O
ANISOU 2089	O	HOH B6184	5951	4399	5152	1173	967 -1075	O

Sheet1

HETATM 2090	O	HOH B6185	26.259	30.297	4.331	1.00	31.36	O
ANISOU 2090	O	HOH B6185	5069	3767	3080	828	-1382 -154	O
HETATM 2091	O	HOH B6186	47.543	21.165	-2.814	1.00	48.50	O
ANISOU 2091	O	HOH B6186	6002	7761	4665	-2069	155 -291	O
HETATM 2092	O	HOH B6187	38.567	40.681	-6.947	1.00	36.69	O
ANISOU 2092	O	HOH B6187	4345	5845	3749	321	1559 988	O
HETATM 2093	O	HOH B6191	53.317	21.258	-17.506	1.00	44.87	O
ANISOU 2093	O	HOH B6191	4266	6796	5985	-18	1575 -808	O
HETATM 2094	O	HOH B6192	14.270	35.359	-20.226	1.00	42.78	O
ANISOU 2094	O	HOH B6192	6555	5340	4361	502	-963 317	O
HETATM 2095	O	HOH B6193	39.417	3.906	-2.350	1.00	62.71	O
ANISOU 2095	O	HOH B6193	7999	8499	7330	-243	-2076 207	O
HETATM 2096	O	HOH B6194	49.113	21.176	-11.080	1.00	38.72	O
ANISOU 2096	O	HOH B6194	4847	2935	6928	-112	2223 595	O
HETATM 2097	O	HOH B6198	25.386	43.041	-5.481	1.00	50.09	O
ANISOU 2097	O	HOH B6198	5786	7775	5469	-251	-265 1684	O
HETATM 2098	O	HOH B6199	28.528	21.827	-23.543	1.00	22.89	O
ANISOU 2098	O	HOH B6199	2139	3219	3341	-93	358 -1256	O
HETATM 2099	O	HOH B6200	36.267	26.197	-21.015	1.00	21.12	O
ANISOU 2099	O	HOH B6200	3491	2739	1792	-416	704 -67	O
HETATM 2100	O	HOH B6201	40.352	38.716	-15.234	1.00	35.83	O
ANISOU 2100	O	HOH B6201	4060	4946	4610	1713	84 -534	O
HETATM 2101	O	HOH B6202	38.560	41.588	-14.220	1.00	23.50	O
ANISOU 2101	O	HOH B6202	2187	3283	3460	37	572 -455	O
HETATM 2102	O	HOH B6203	50.853	30.901	-5.699	1.00	43.99	O
ANISOU 2102	O	HOH B6203	3900	8023	4790	1844	85 -554	O
HETATM 2103	O	HOH B6204	30.250	23.519	-22.535	1.00	27.68	O
ANISOU 2103	O	HOH B6204	6424	2096	1999	-1011	-326 177	O
HETATM 2104	O	HOH B6205	39.753	24.421	0.464	1.00	38.50	O
ANISOU 2104	O	HOH B6205	7192	4918	2517	-2017	-113 -227	O
HETATM 2105	O	HOH B6207	15.620	35.281	-8.858	1.00	30.12	O
ANISOU 2105	O	HOH B6207	3188	4507	3748	715	743 -836	O
HETATM 2106	O	HOH B6209	27.783	34.520	-26.505	1.00	38.37	O
ANISOU 2106	O	HOH B6209	5858	6203	2517	-630	-1057 701	O
HETATM 2107	O	HOH B6213	31.198	43.802	-18.147	1.00	47.01	O
ANISOU 2107	O	HOH B6213	6625	6824	4412	-10	392 -960	O
HETATM 2108	O	HOH B6217	16.757	35.558	-21.781	1.00	47.56	O
ANISOU 2108	O	HOH B6217	6550	5428	6095	-554	638 -2241	O
HETATM 2109	O	HOH B6218	43.379	33.043	-7.261	1.00	38.66	O
ANISOU 2109	O	HOH B6218	4287	5868	4534	-1557	135 -1111	O
HETATM 2110	O	HOH B6222	22.267	41.872	-21.917	1.00	52.27	O
ANISOU 2110	O	HOH B6222	7740	5768	6353	-18	318 -2423	O
HETATM 2111	O	HOH B6226	40.772	7.313	5.532	1.00	44.61	O
ANISOU 2111	O	HOH B6226	6065	6247	4636	-1393	-658 -501	O
HETATM 2112	O	HOH B6230	48.920	16.869	-16.180	1.00	48.17	O
ANISOU 2112	O	HOH B6230	5034	5954	7314	-2107	2891 -1348	O
HETATM 2113	O	HOH B6231	43.445	21.392	-1.351	1.00	37.91	O
ANISOU 2113	O	HOH B6231	4846	5309	4248	-944	587 -2109	O
HETATM 2114	O	HOH B6232	39.813	17.309	6.928	1.00	53.43	O
ANISOU 2114	O	HOH B6232	6085	7181	7035	1535	1594 -1005	O
HETATM 2115	O	HOH B6235	38.686	17.176	2.964	1.00	53.93	O
ANISOU 2115	O	HOH B6235	6035	5995	8461	-511	-2120 2648	O
HETATM 2116	O	HOH B6237	7.447	26.800	-14.961	1.00	43.59	O
ANISOU 2116	O	HOH B6237	3313	5648	7601	-587	493 -1421	O
HETATM 2117	O	HOH B6238	54.462	28.766	-15.869	1.00	23.85	O
ANISOU 2117	O	HOH B6238	2286	3156	3619	-658	-366 -896	O

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BIOTIN-BINDING PROTEIN

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N.M.GREEN

I.LE TRONG
R.E.STENKAMP

E.A.MERRITT
P.S.STAYTON

J.F.ECCLESTON

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